

FIGURE 1

2050E07405660

TM-020 Mode Cavity with Inner Cylinder

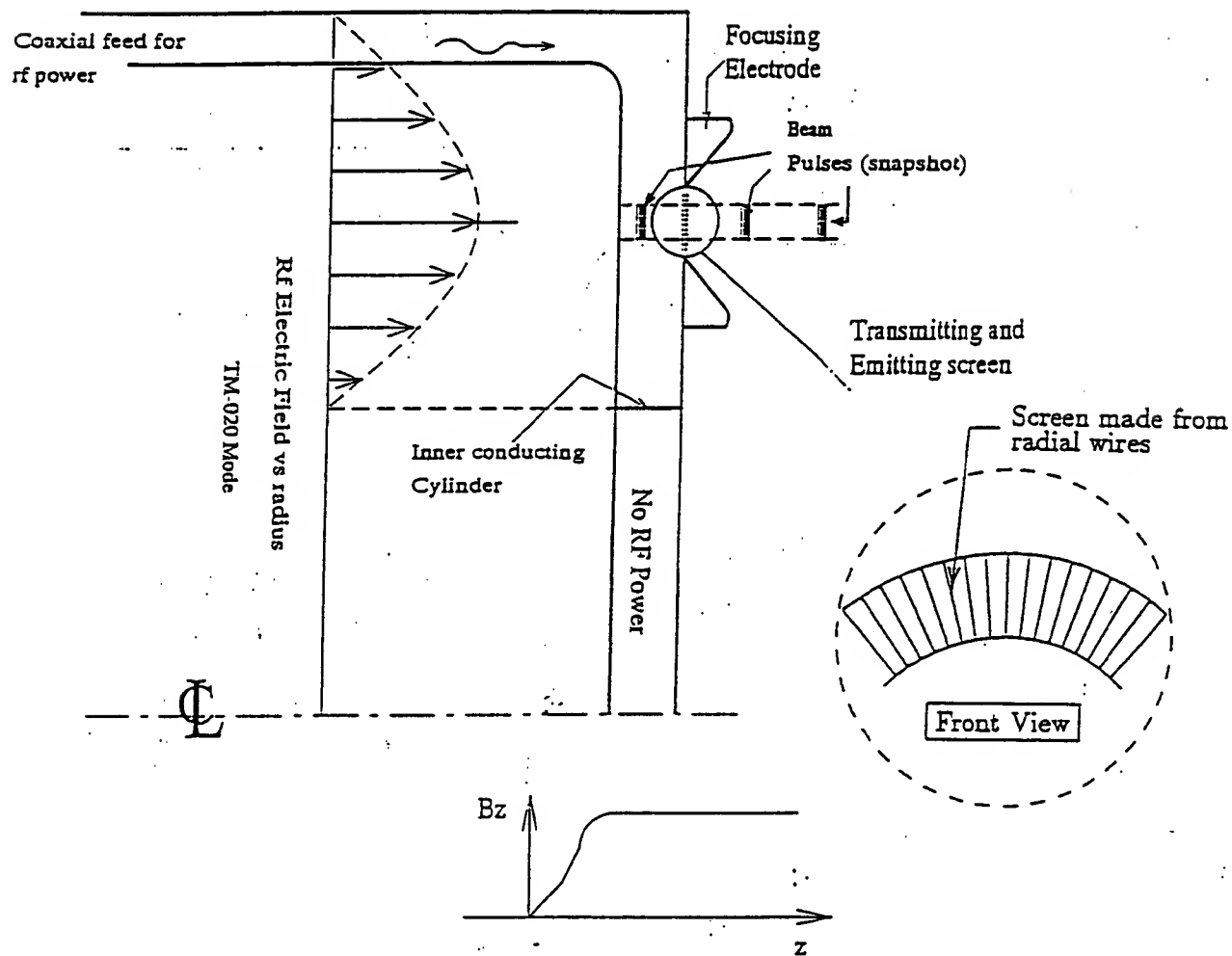


FIGURE 2

0995077.030502

205060 205060 205060

OSCILLATING
MEANS
22
OSCILLATING E
FIELD 26

OSCILLATING
B FIELD 28
MEANS

RF cavity
(side view)

10

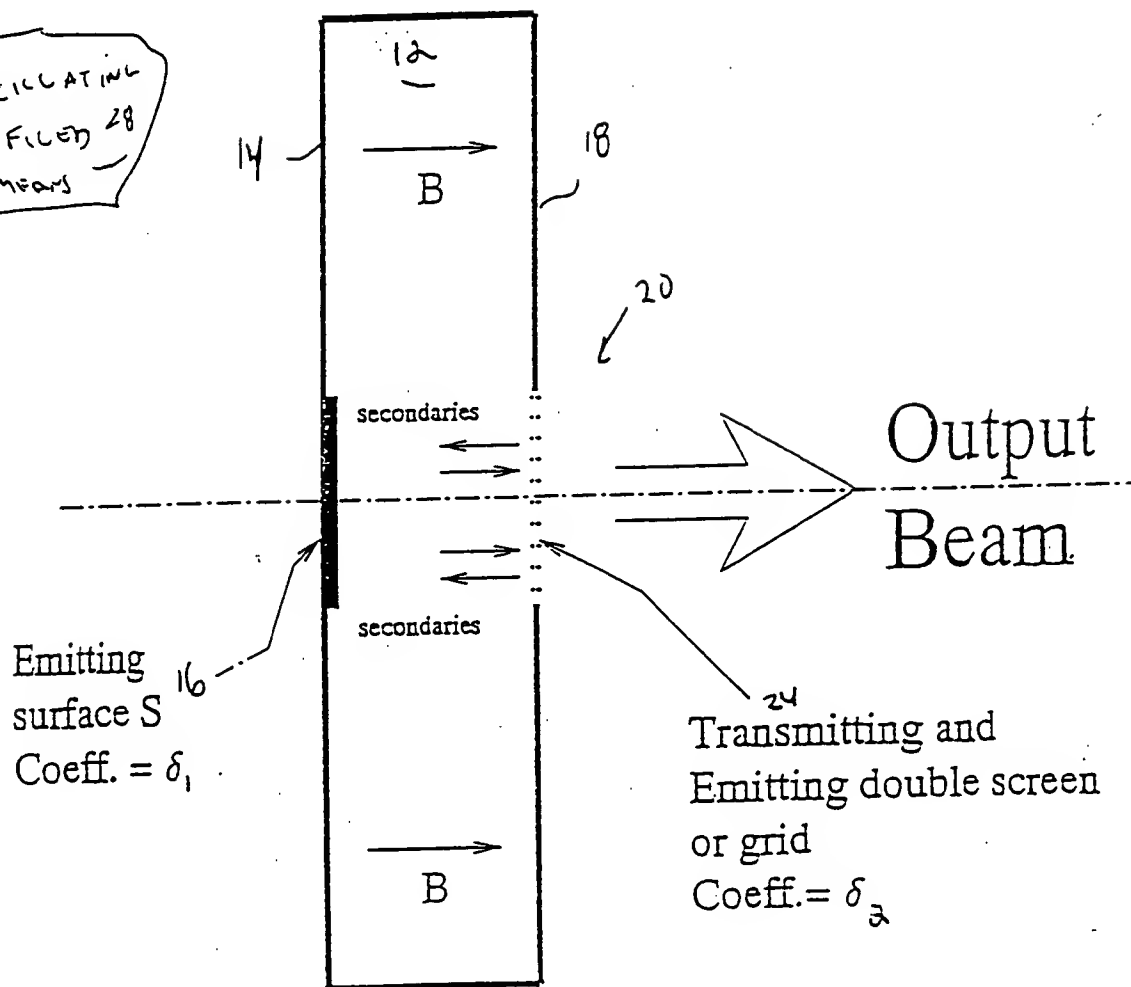


FIGURE 3

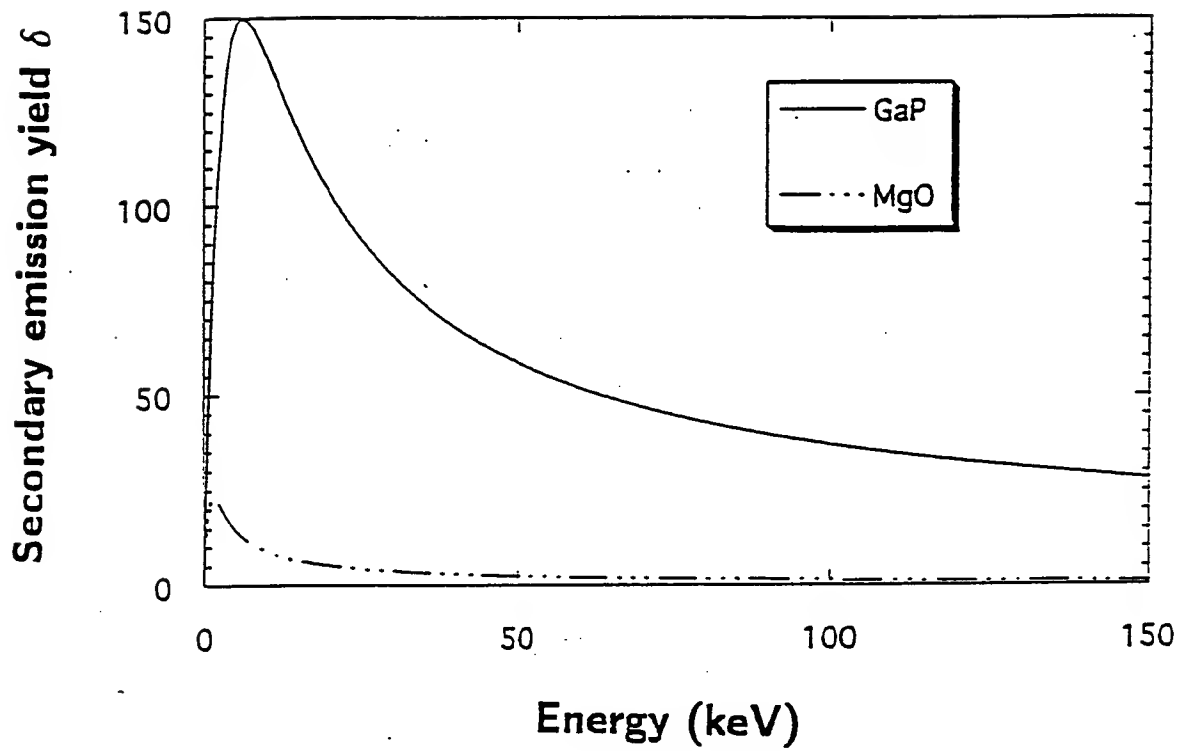


FIGURE 4

2050E0" 22056660

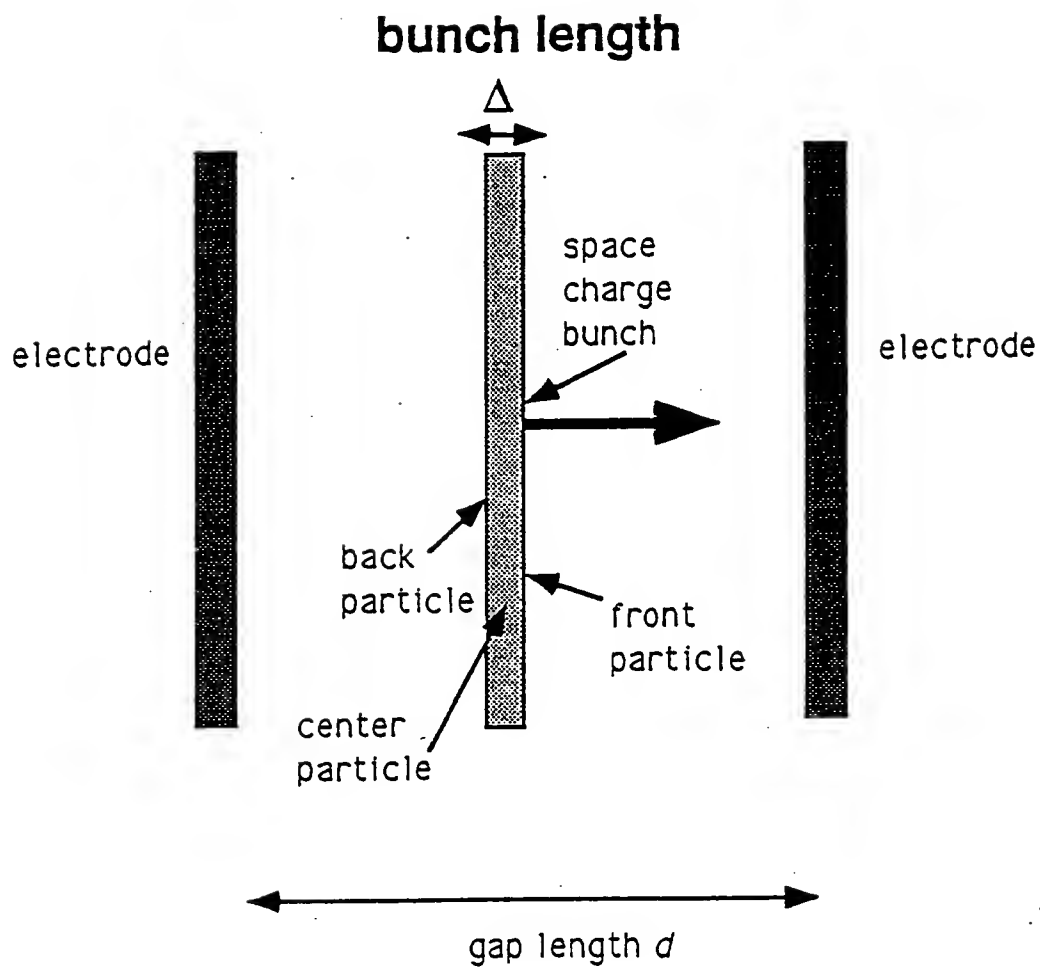


FIGURE 5

205030 405660

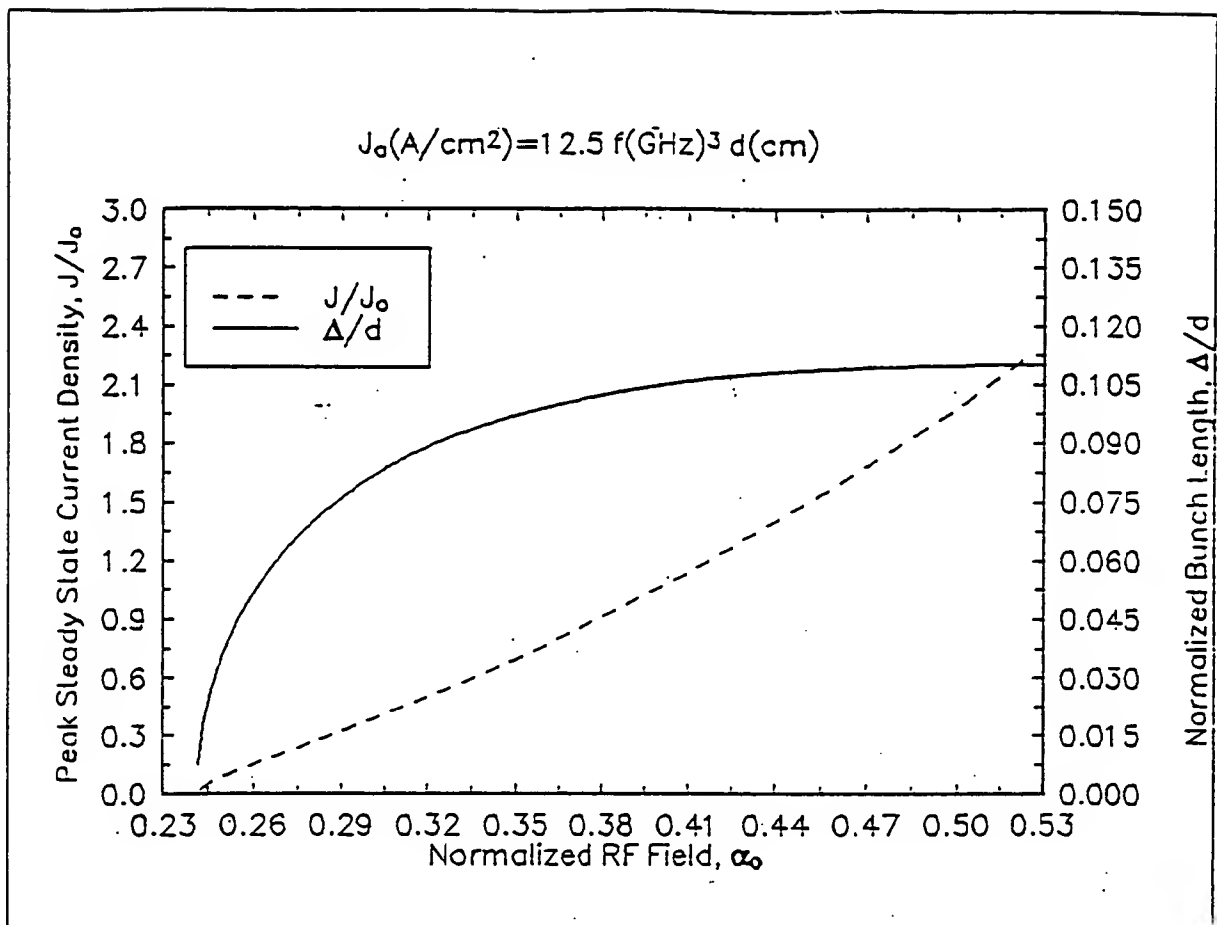


FIGURE 6

2050E0" 22056660

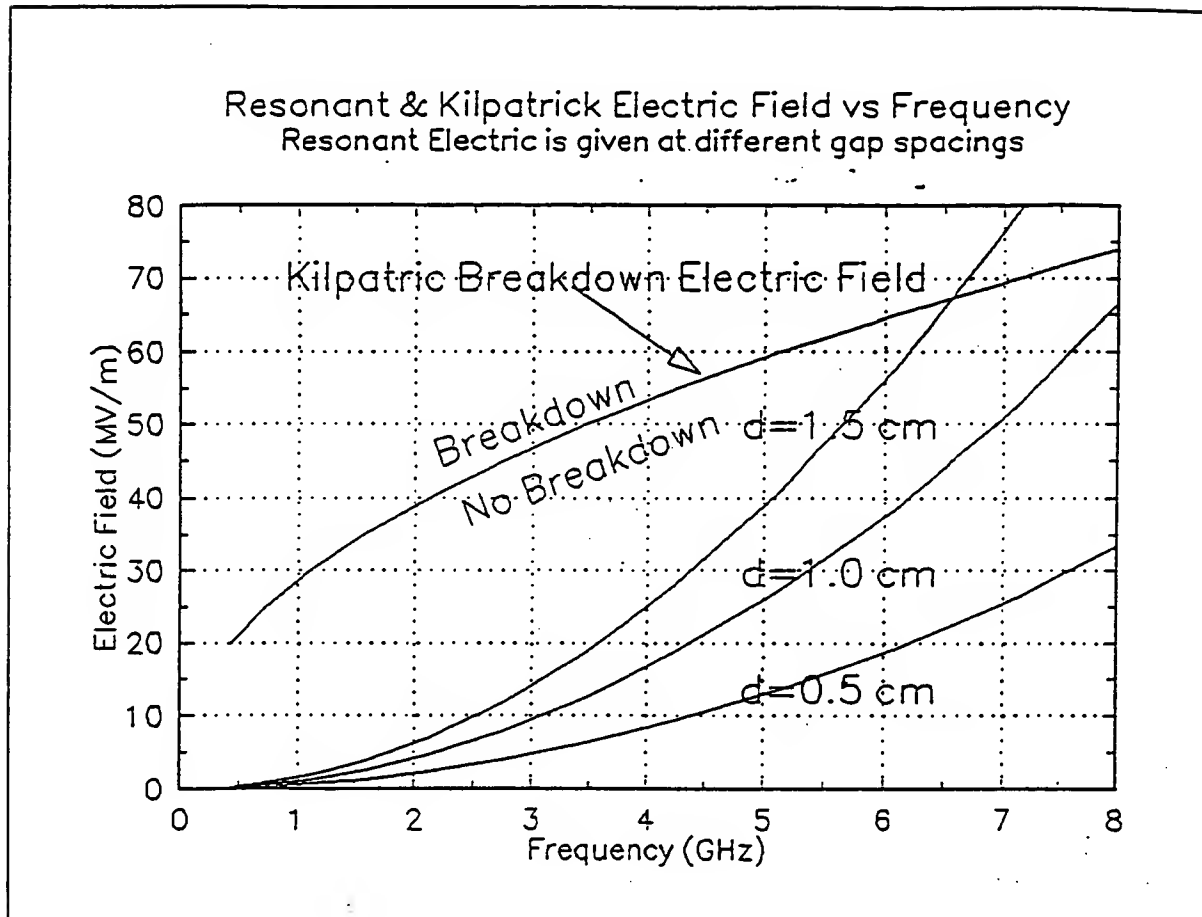


FIGURE 7

1.3 GHz, xy plot

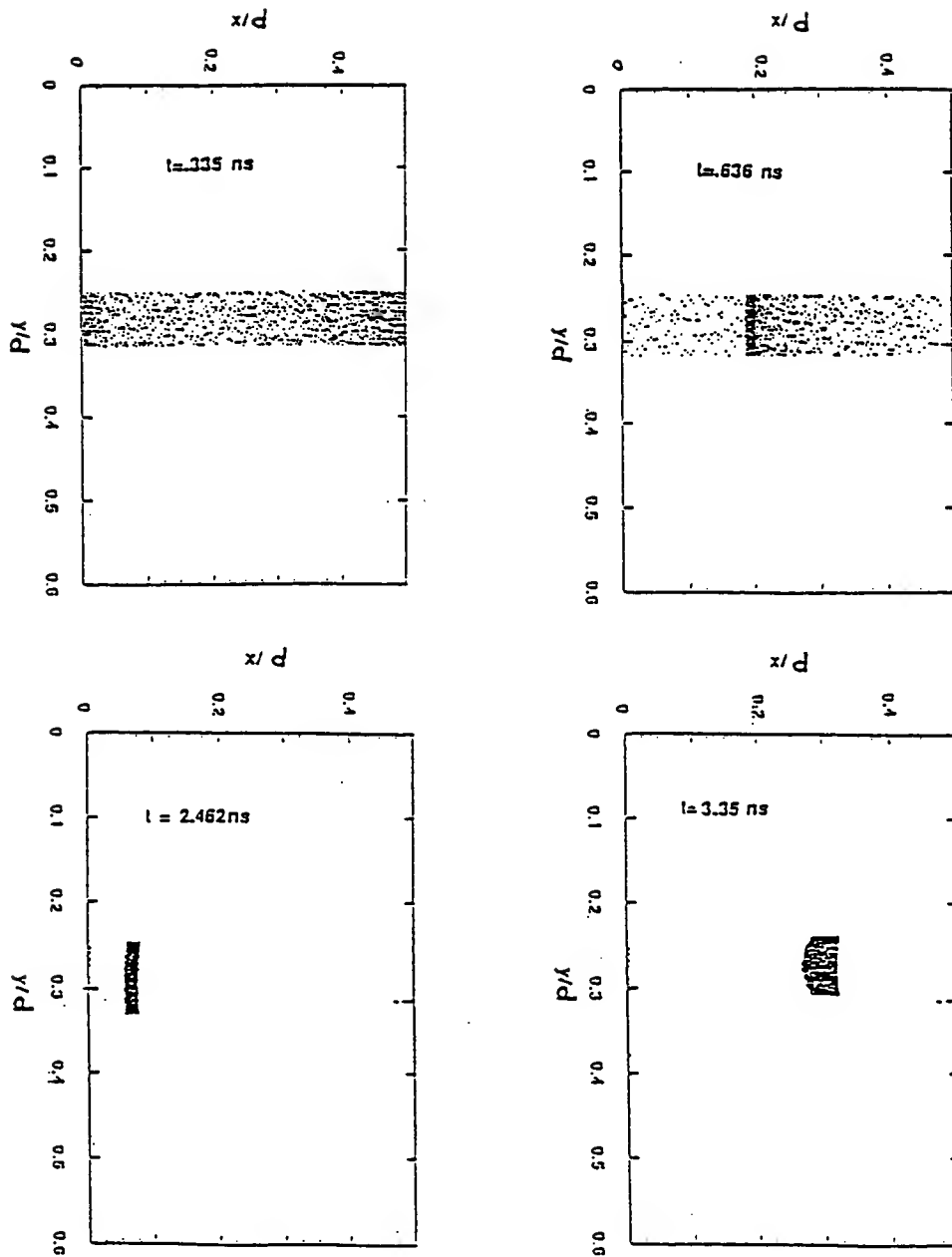


FIGURE 8

09995077.030502

2050E0" 44056660

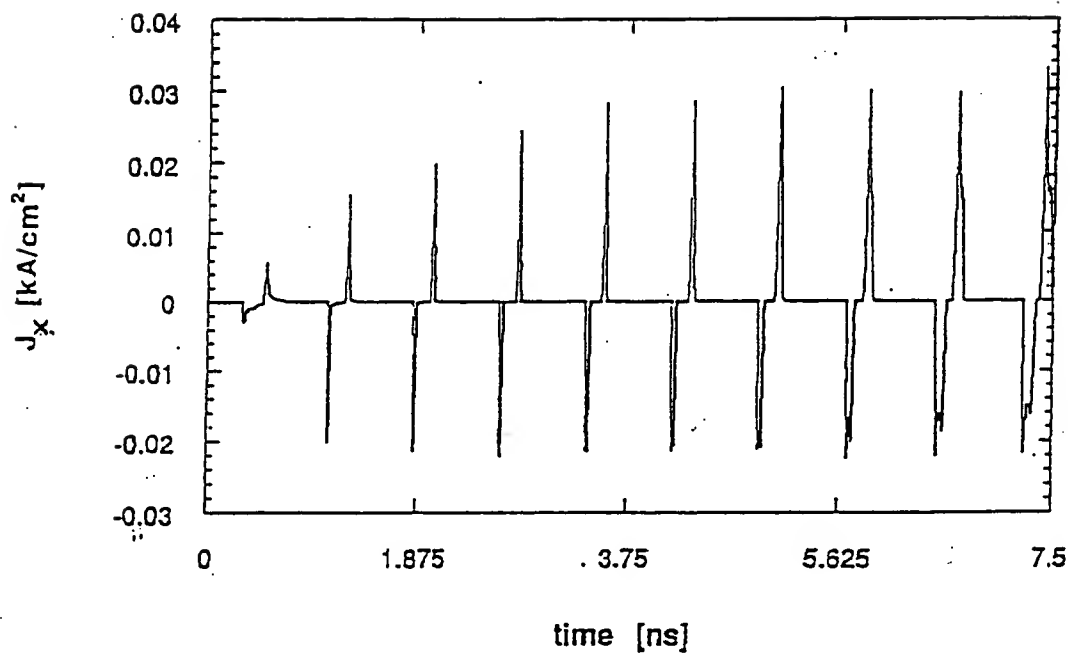


FIGURE 9

205050" 44056660

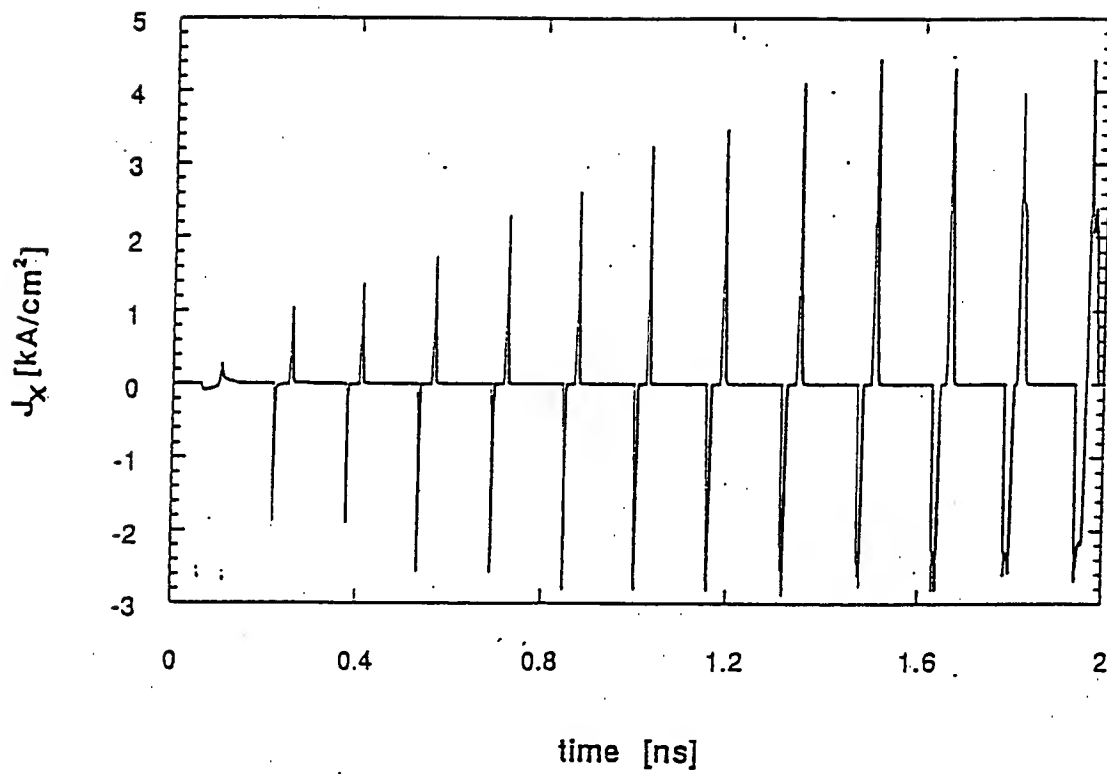


FIGURE 10

2050E0" 44056660

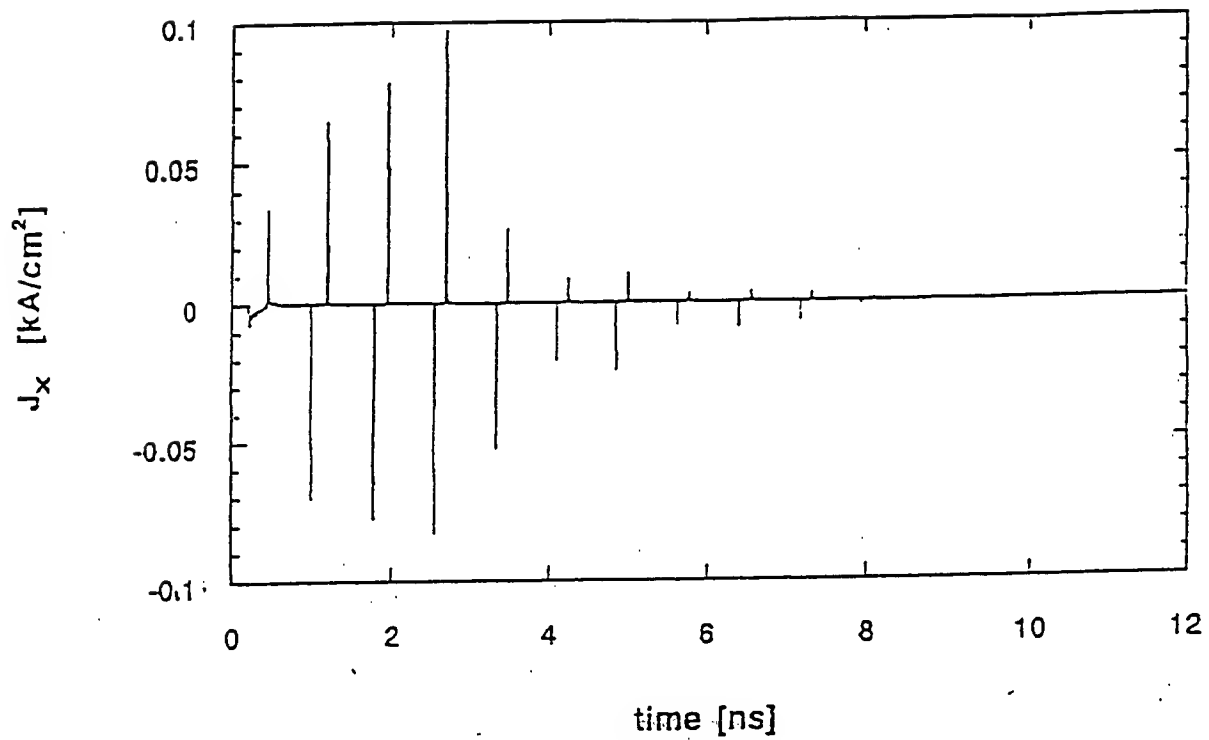


FIGURE 11

205060-1/056660

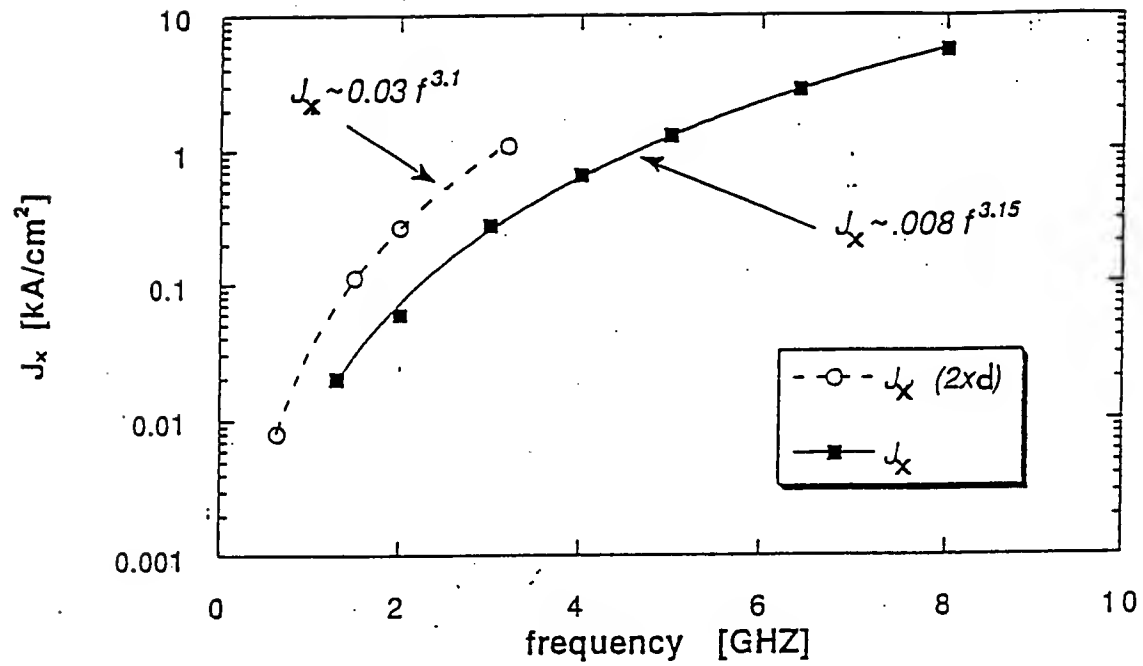


FIGURE 12

205060 205660

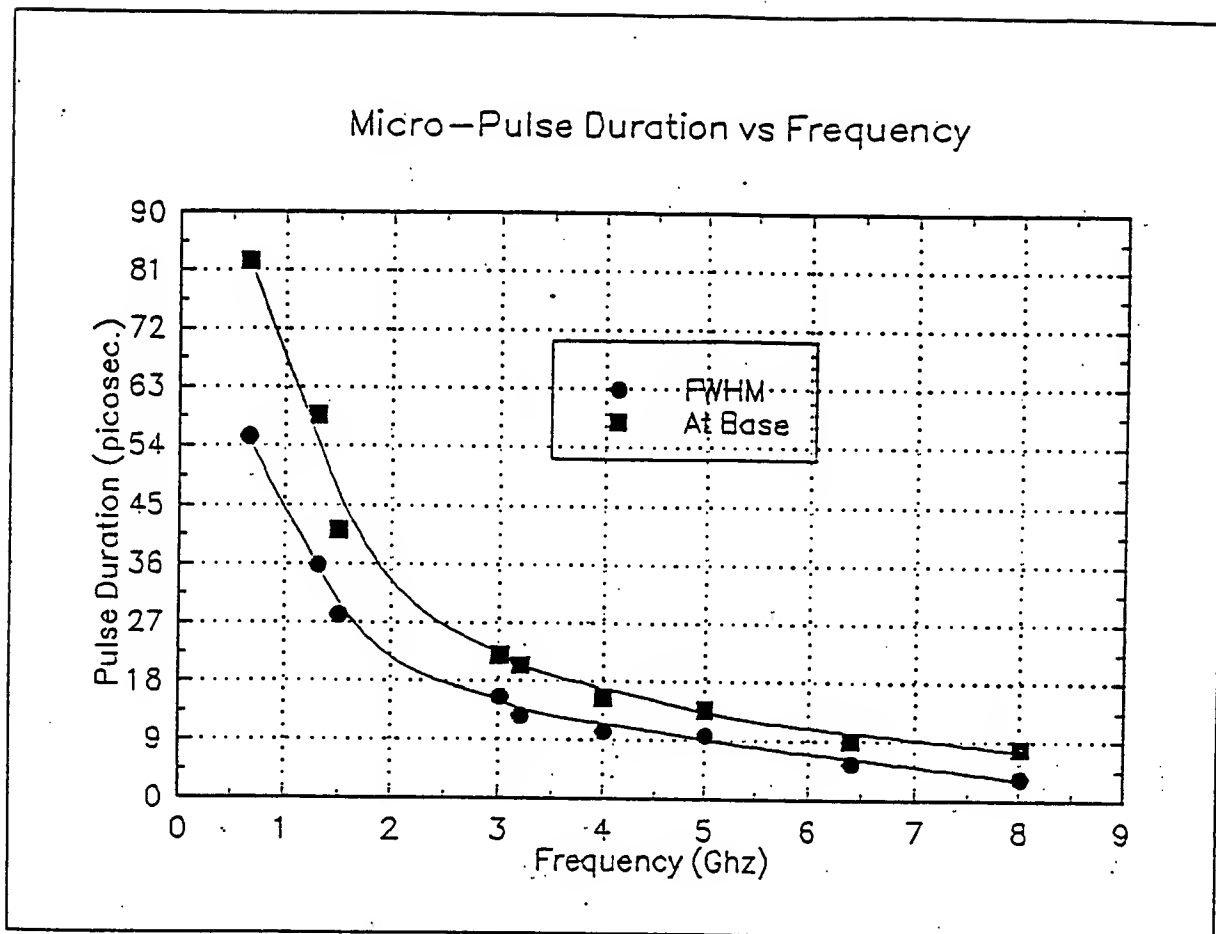


FIGURE 13

2050ED 22056660

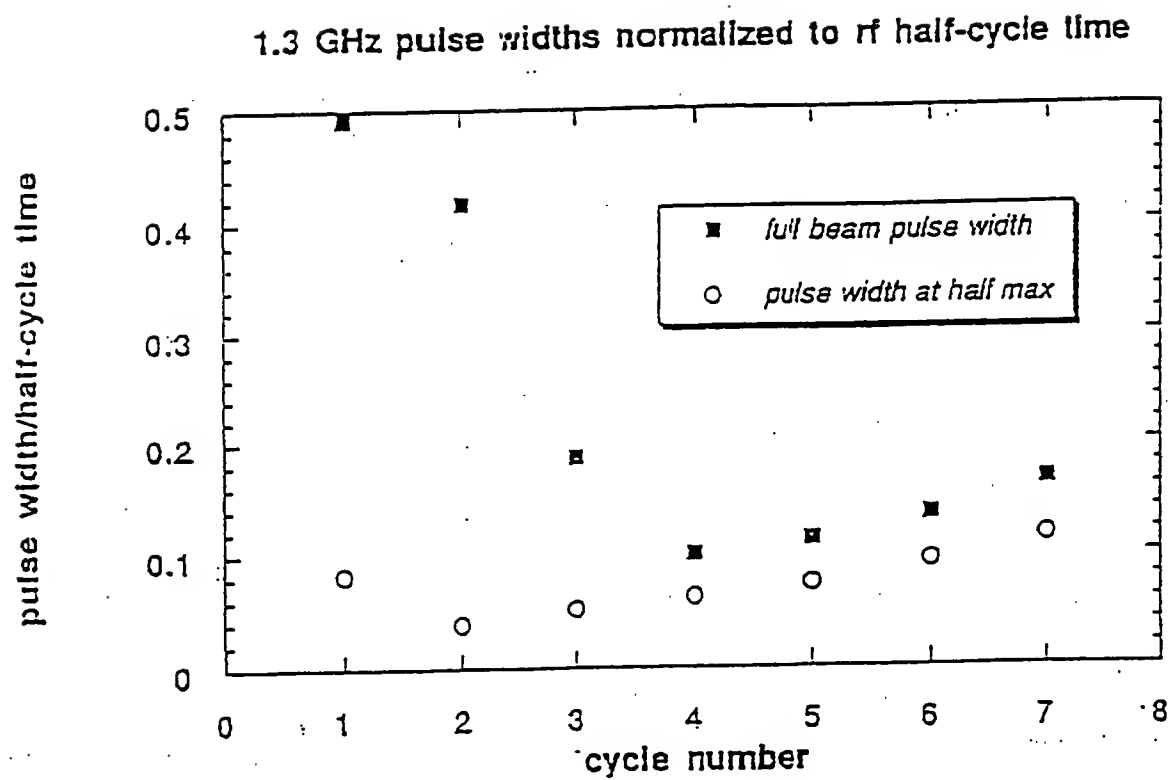


FIGURE 14

2050E0" 44056660

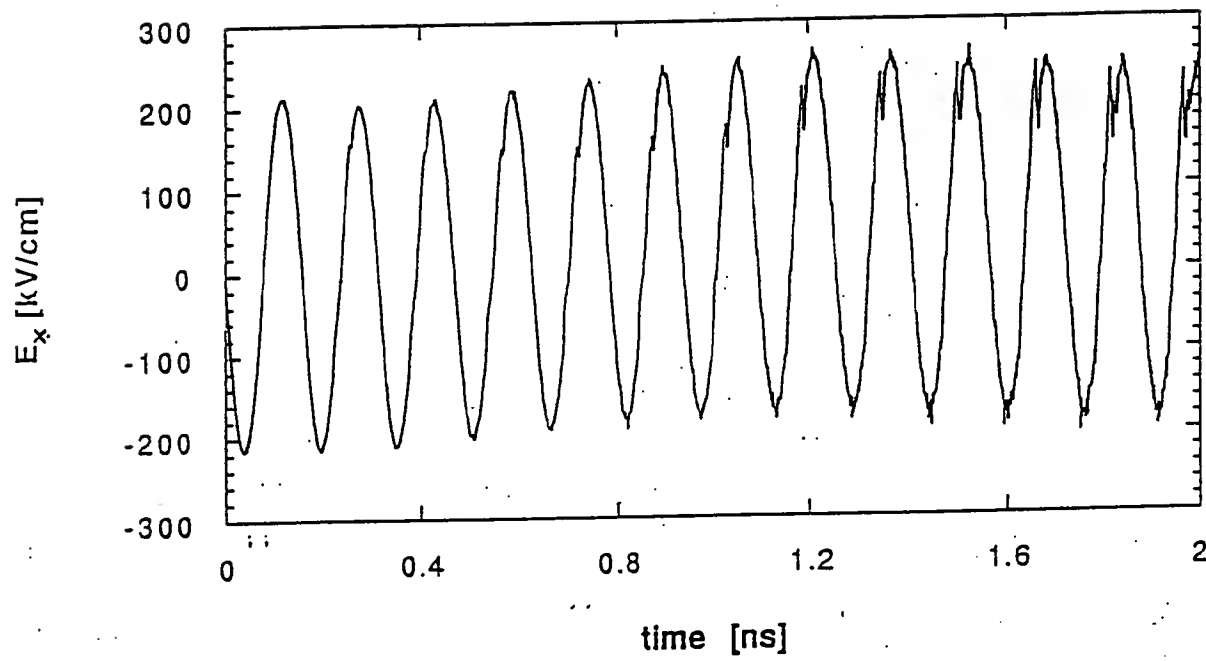


FIGURE 15

2050E07.030502

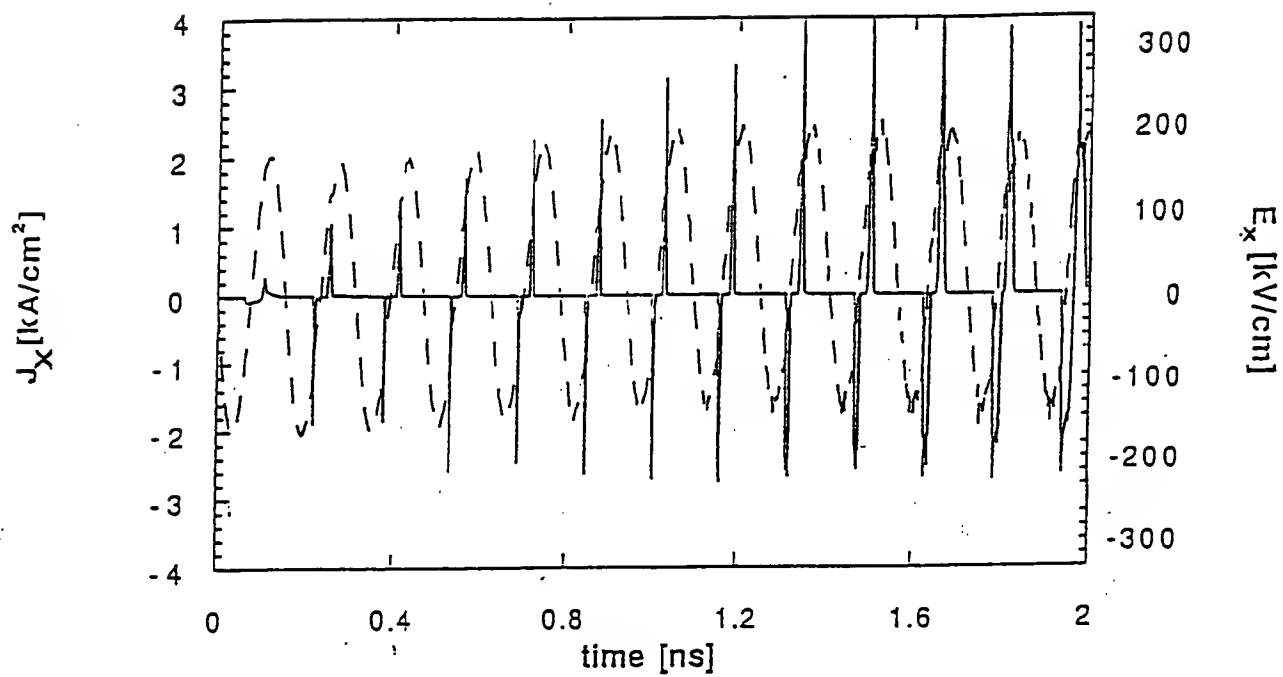


FIGURE 16

2050E0" 2056660

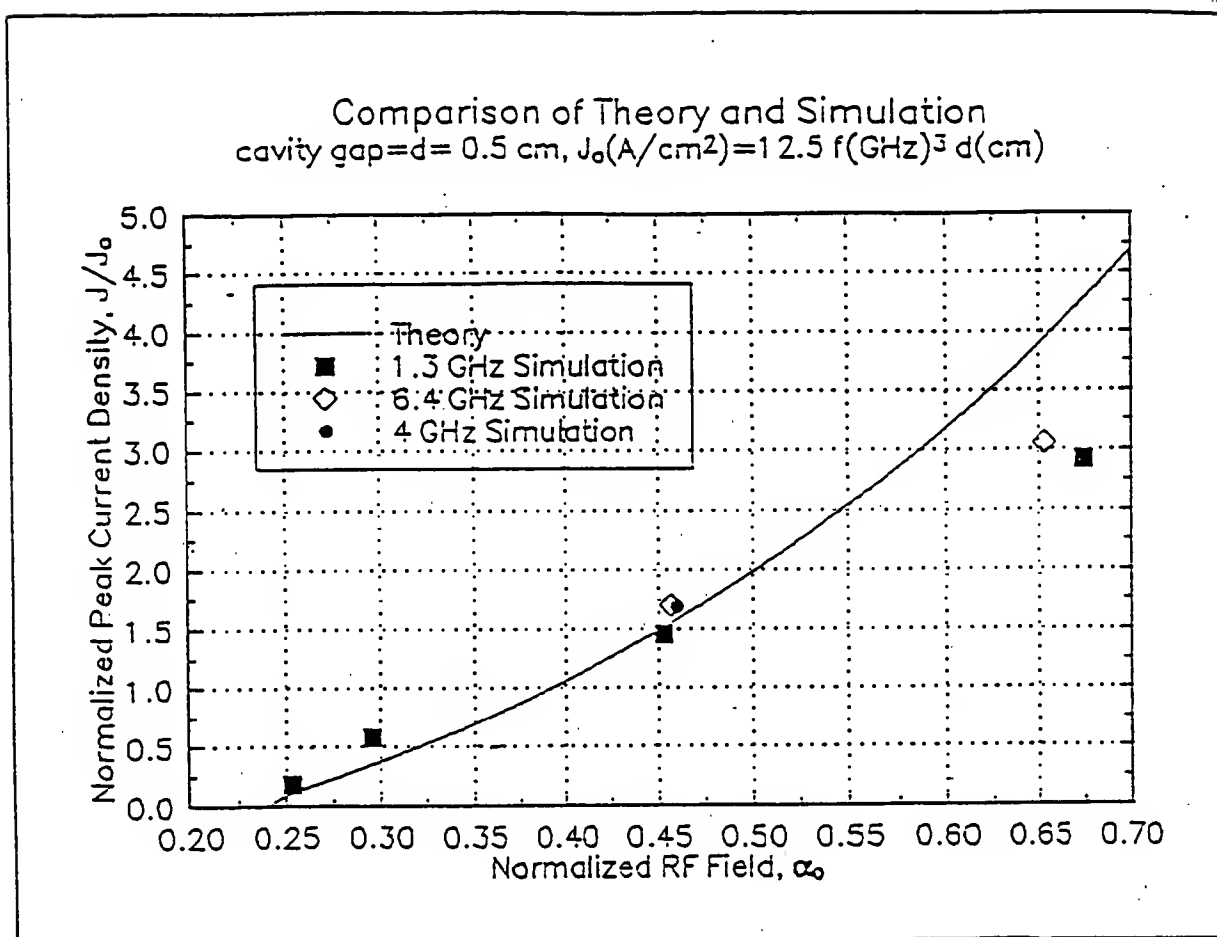


FIGURE 17

2050E0" 44056660

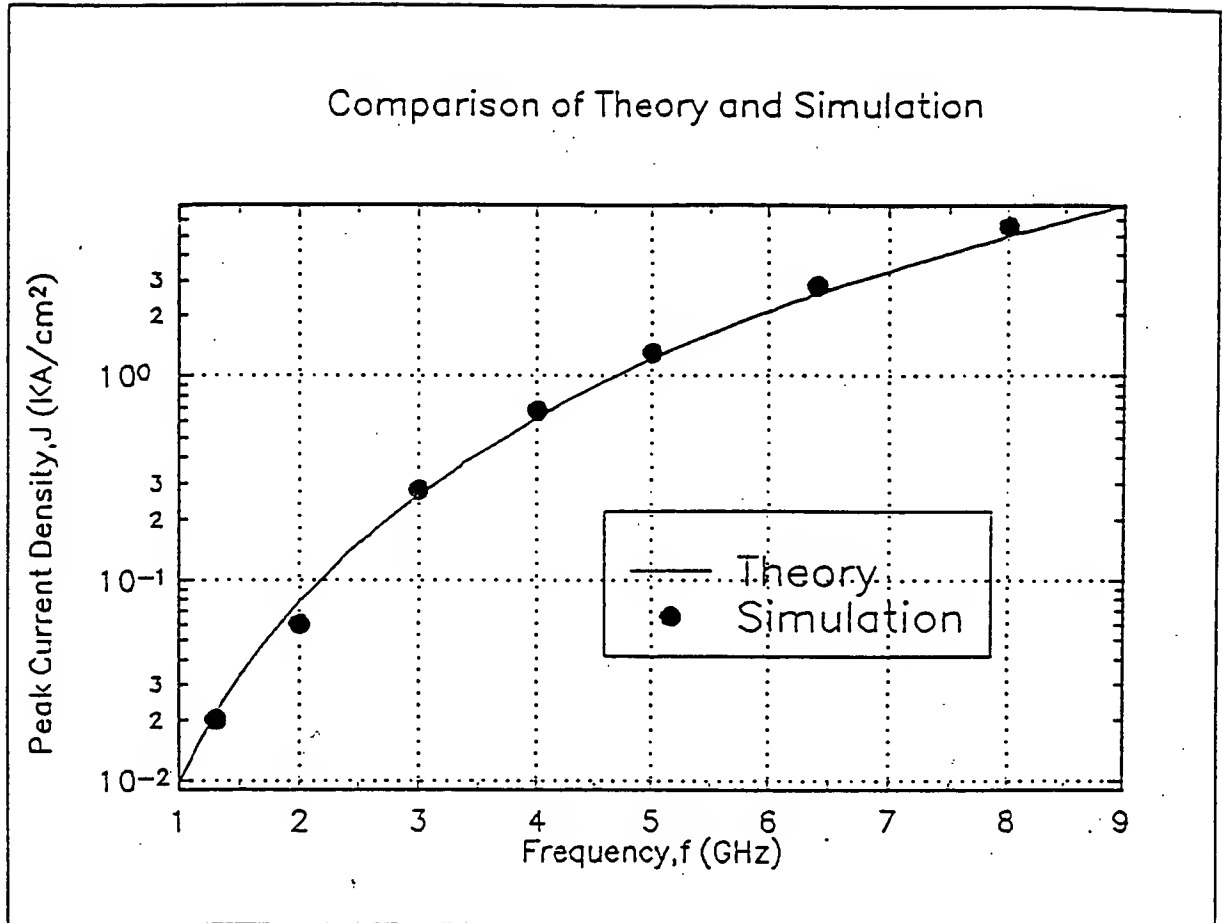


FIGURE 18

205030" 2205650

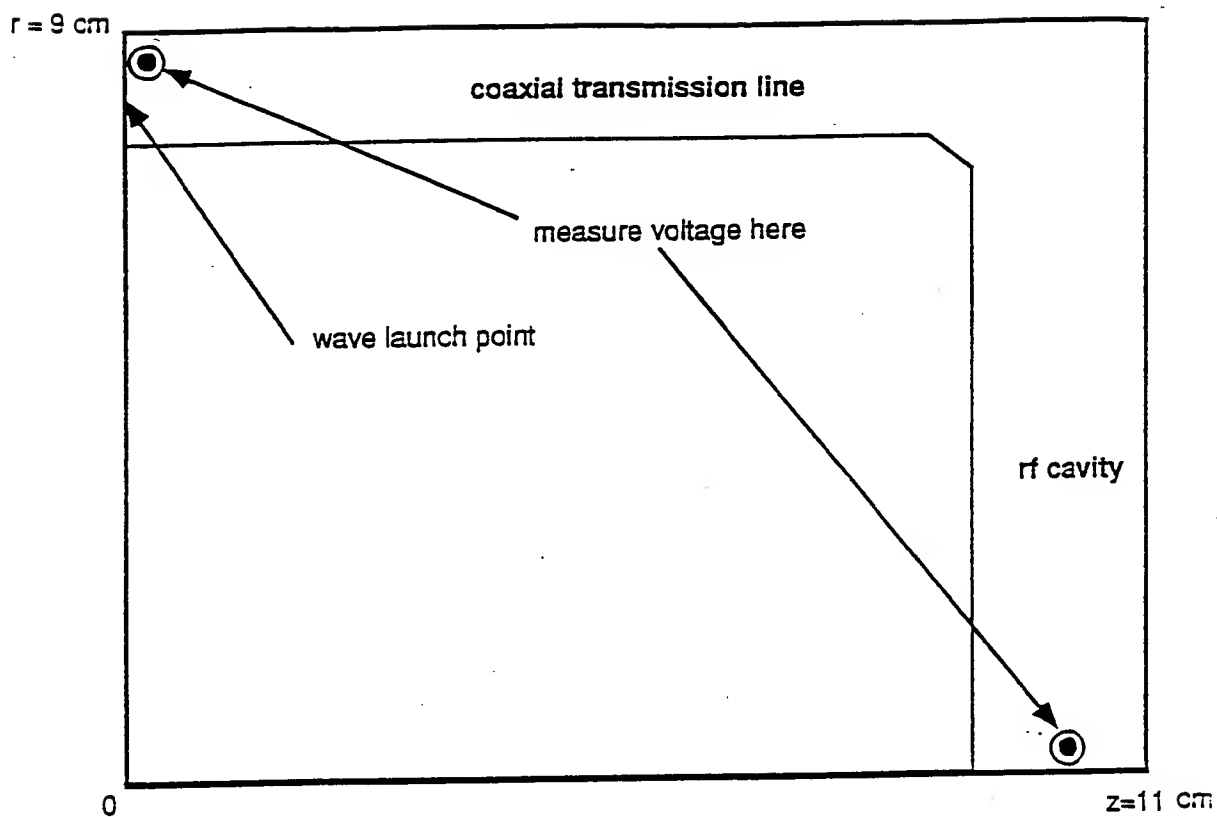


FIGURE 19

2050E0 205660

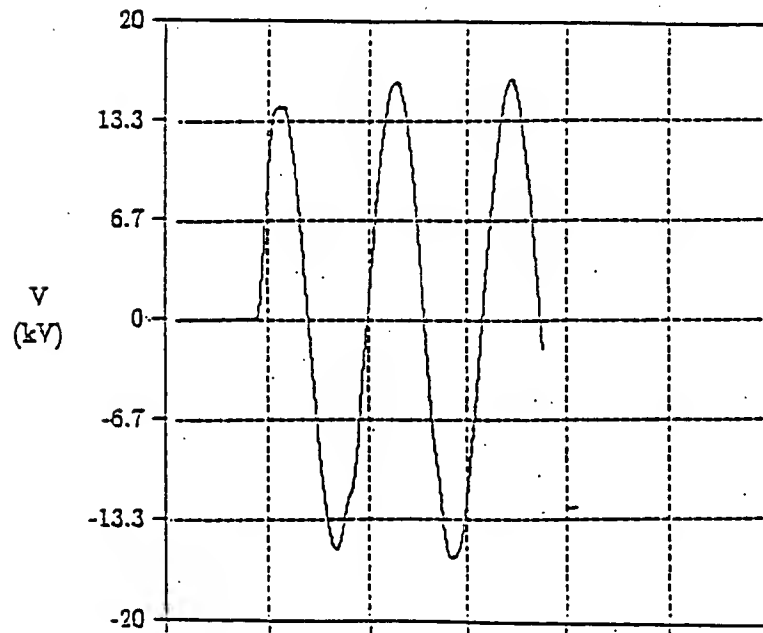
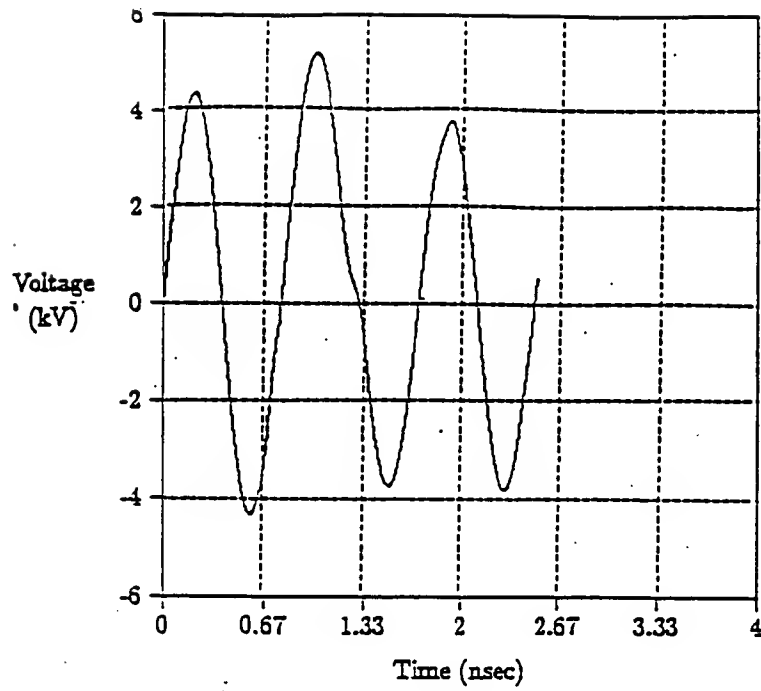


FIGURE 20

Electric Field vs Radius for an Ideal and a Coaxially Fed Cavity
TM₀₁₀ mode at 1.275 GHz, Cavity Gap=1 cm, Coaxial Gap=1 cm

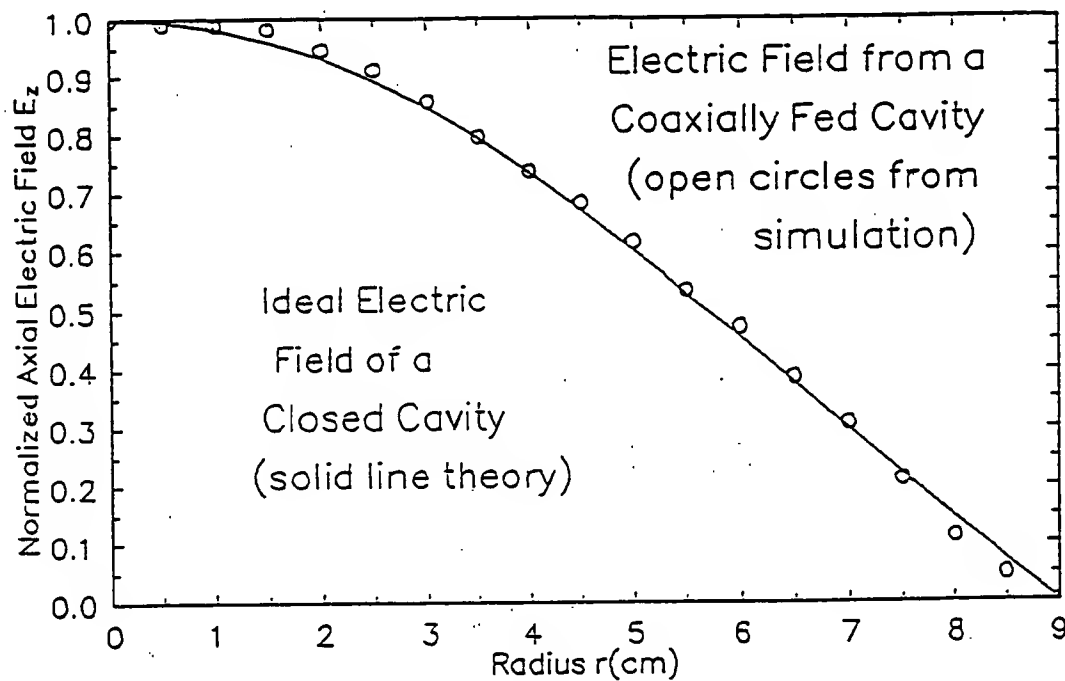


FIGURE 21

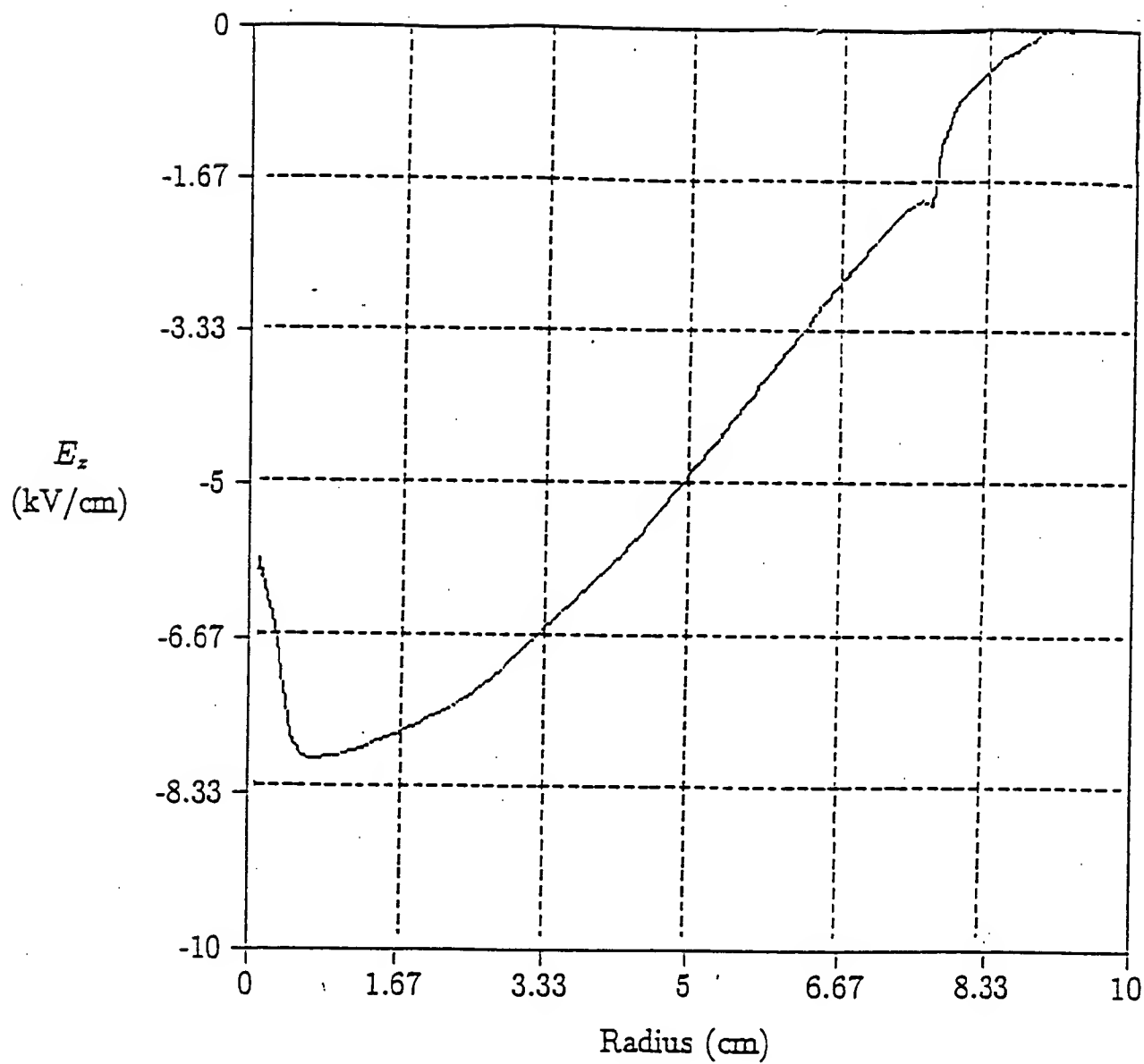


FIGURE 22

205060" 22056660

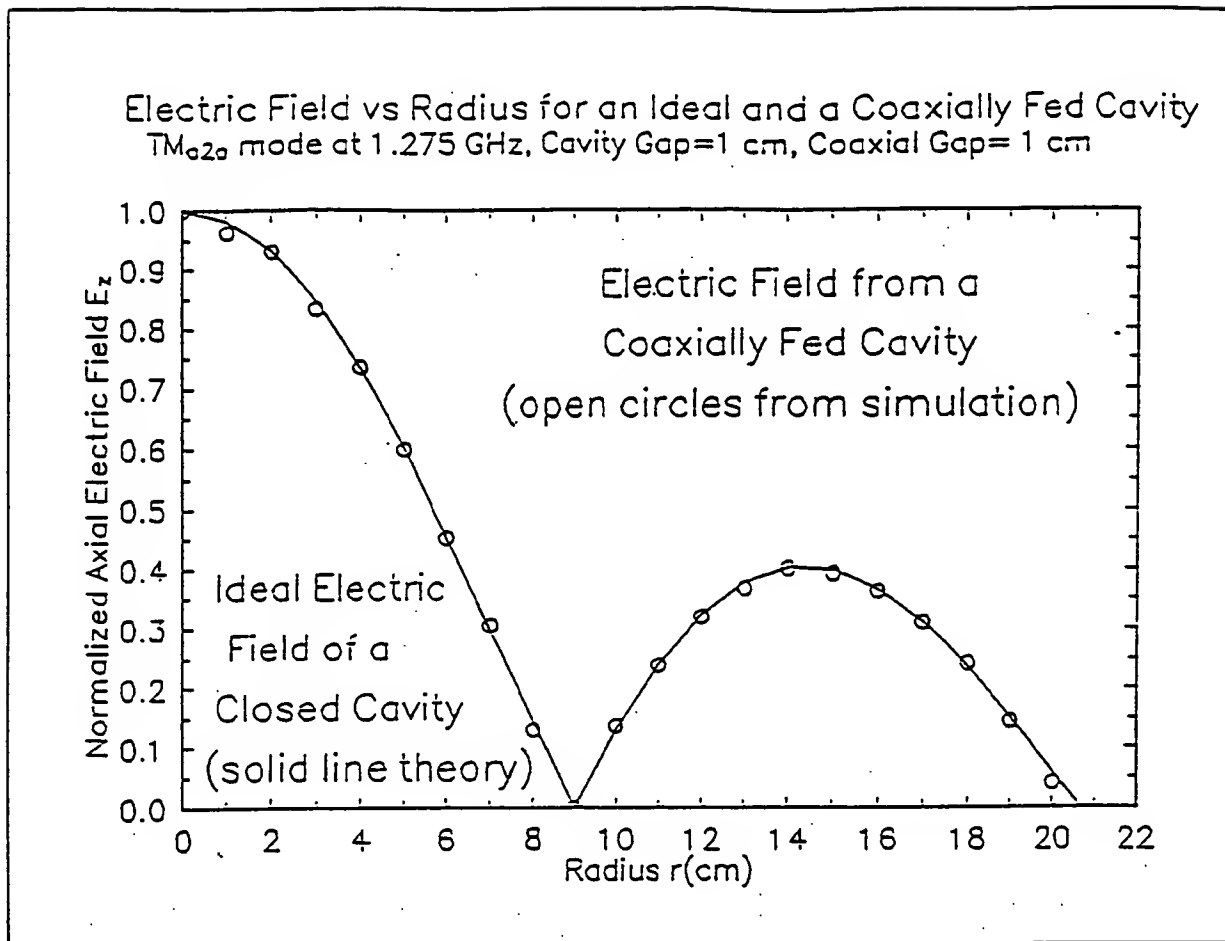


FIGURE 23

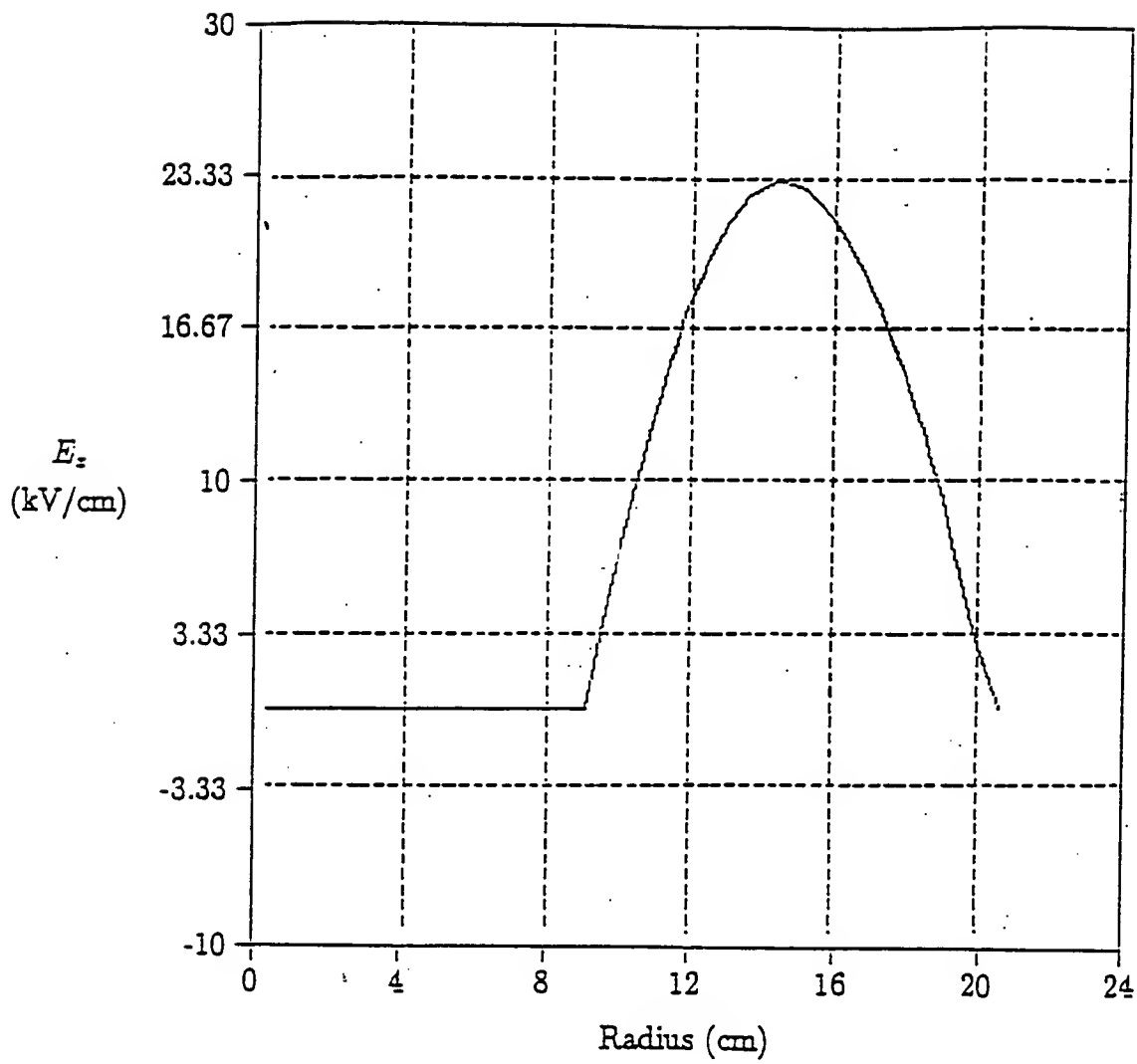


FIGURE 24

2050ED" 2405660

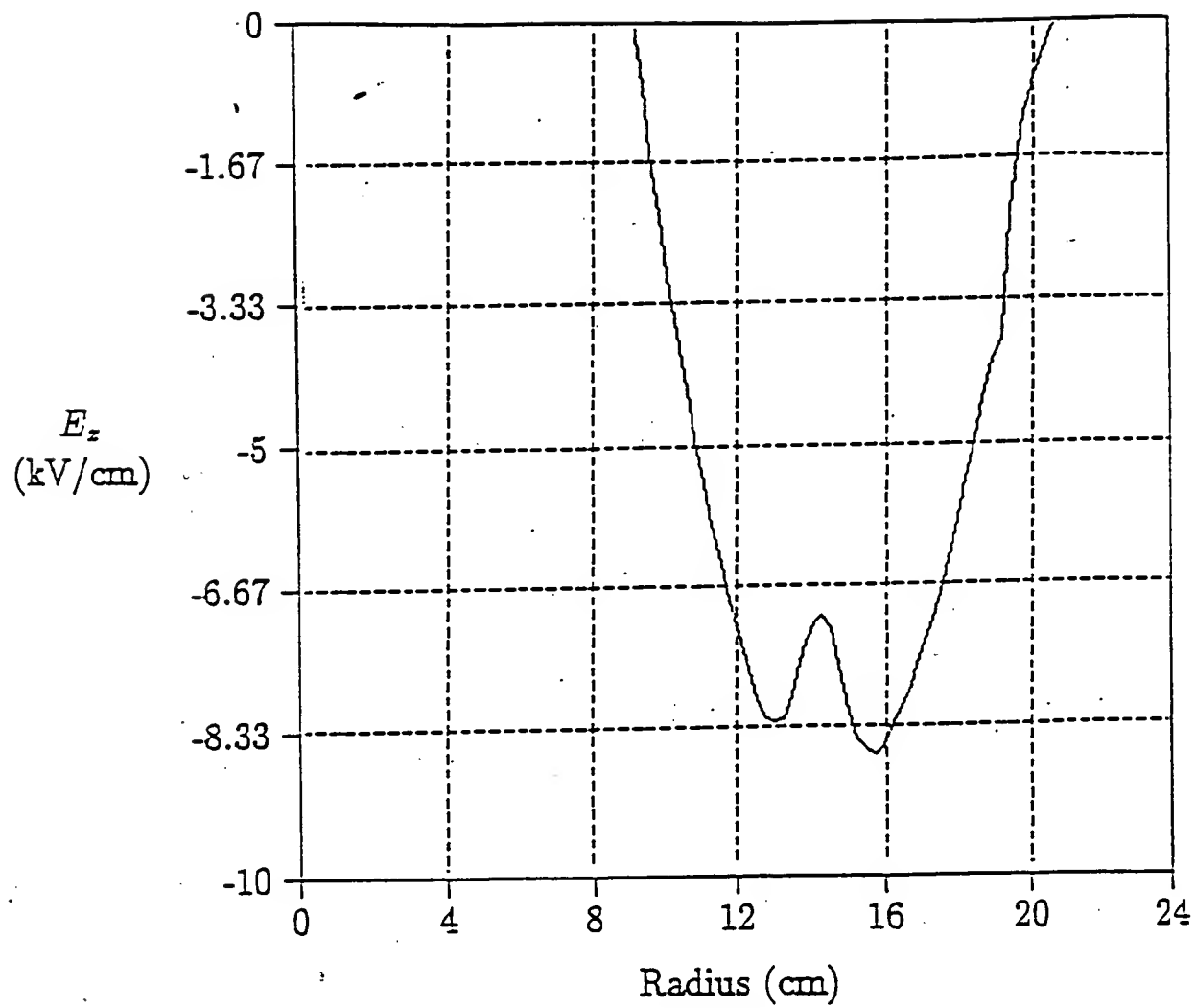


FIGURE 25

2050E0" 24056650

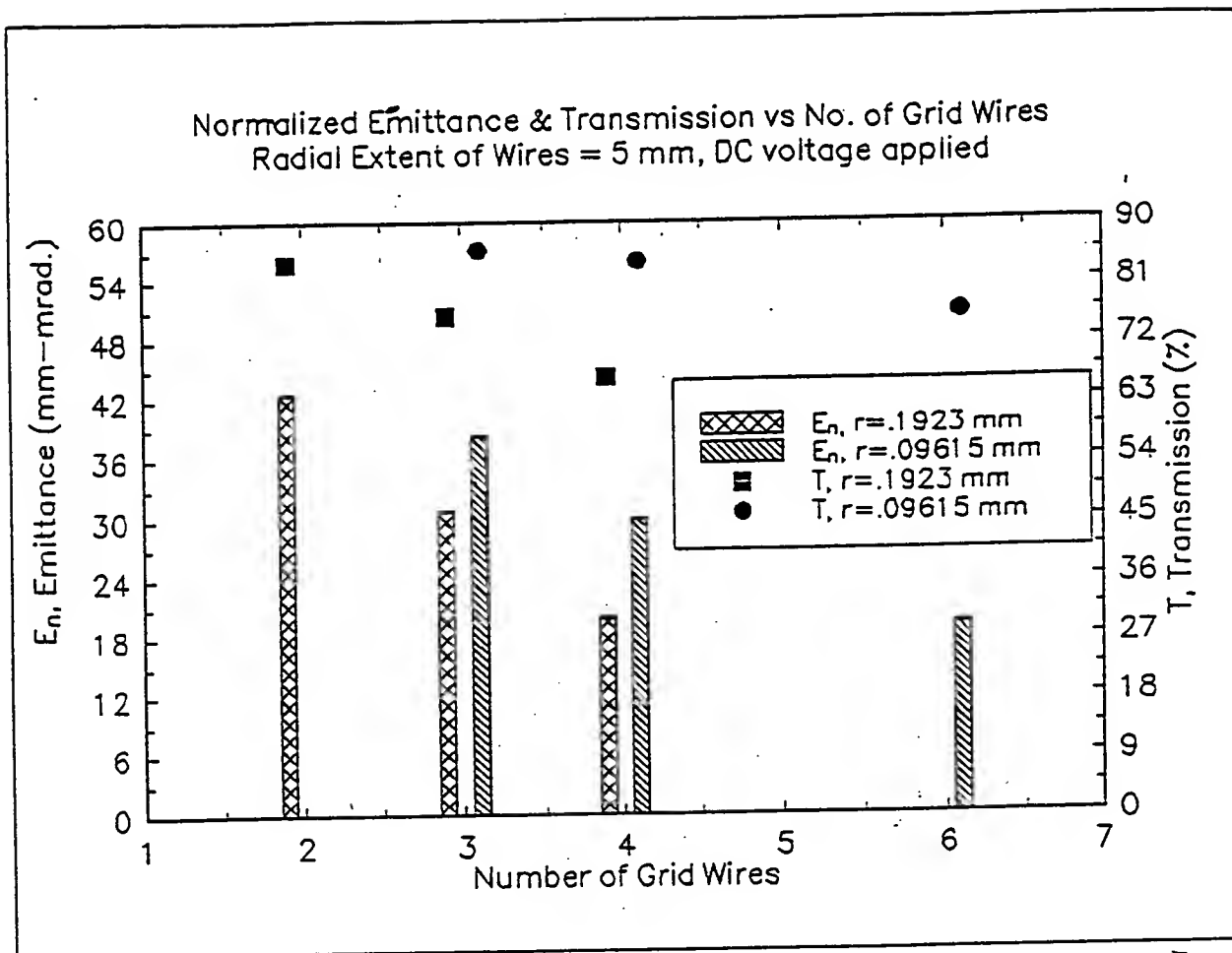


FIGURE 26

099507 030500

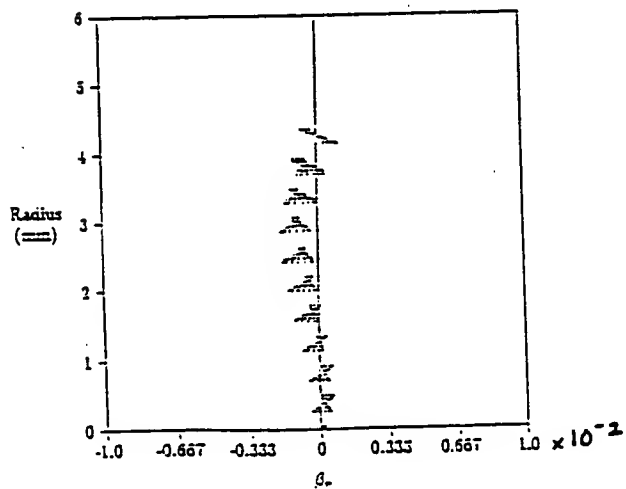
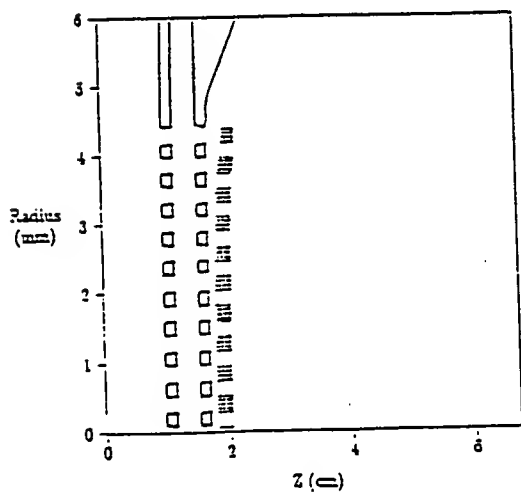
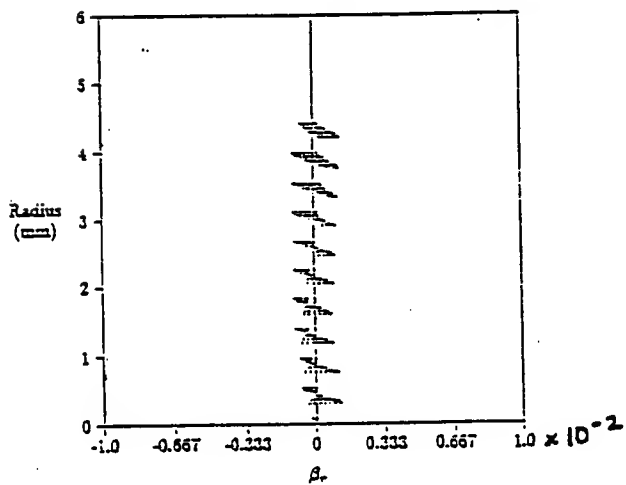
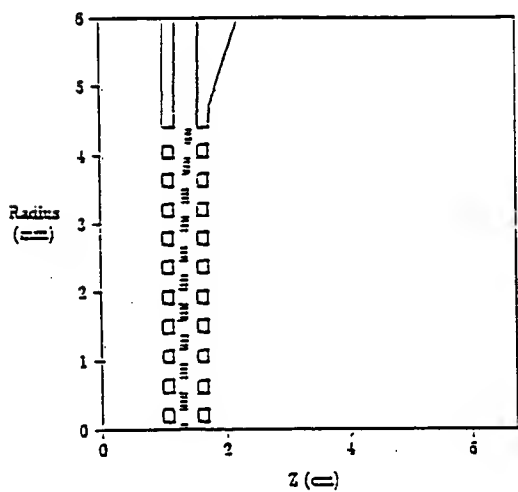
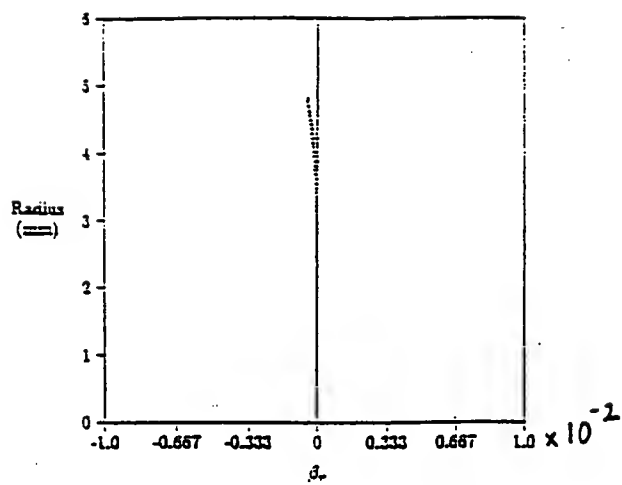
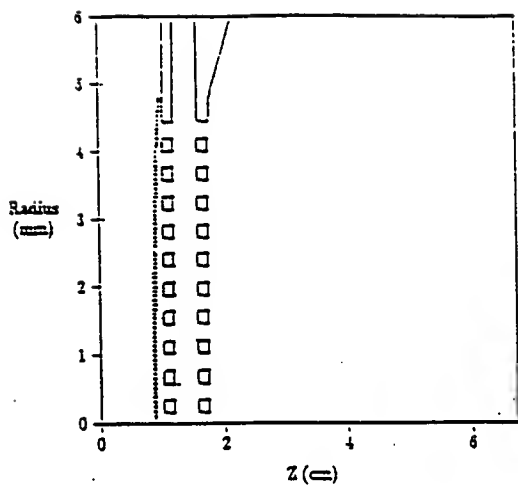


FIGURE 27

205060" 22056660

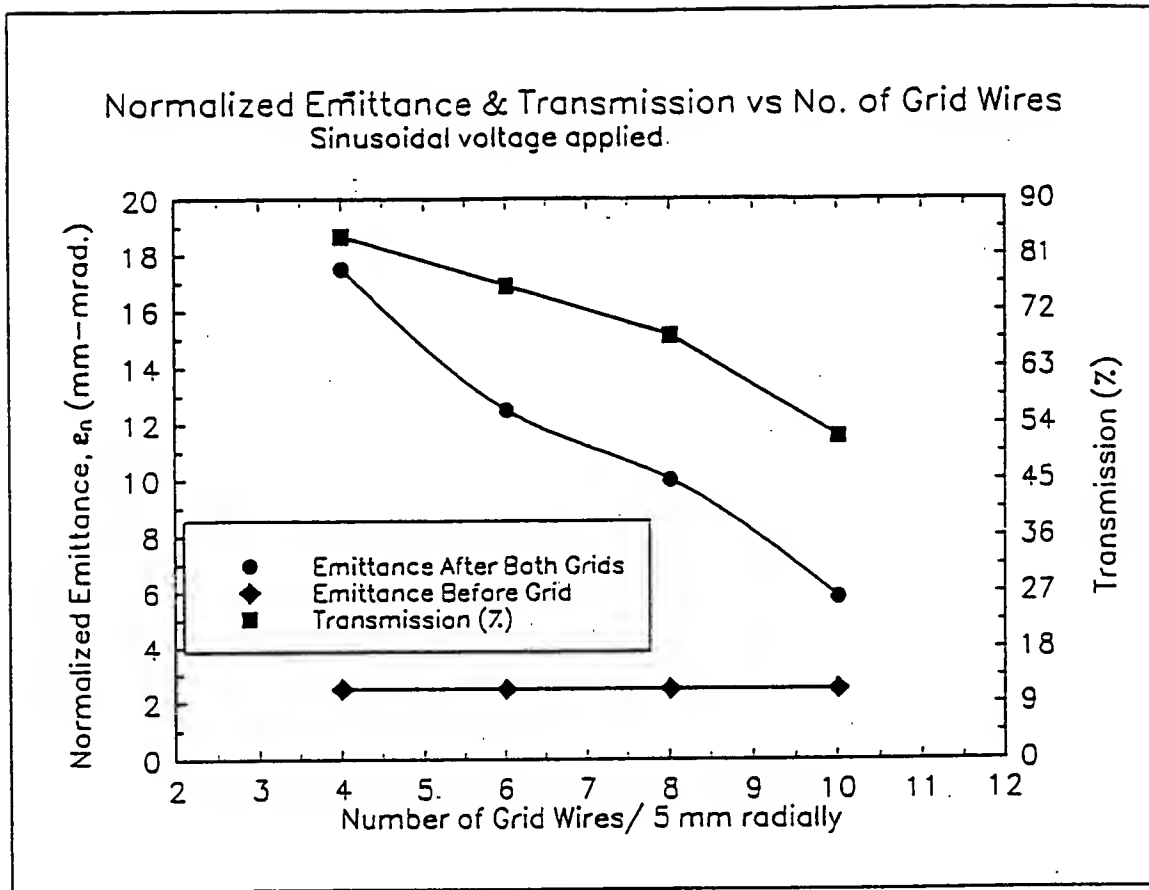


FIGURE 28

205080 44056660

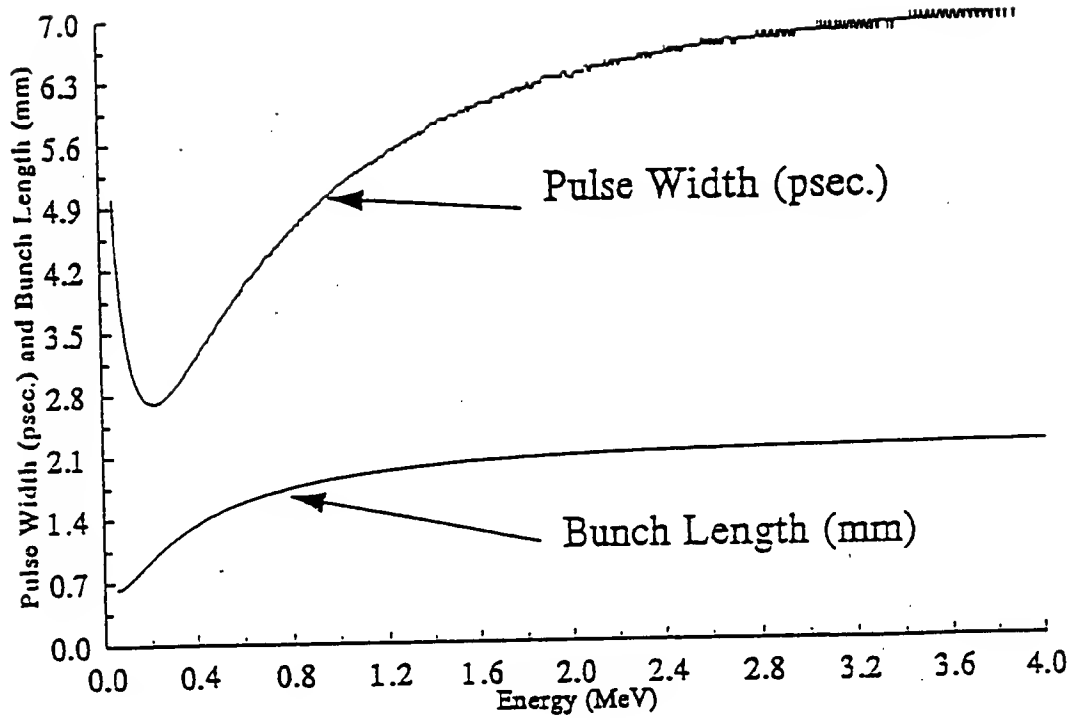


FIGURE 29

09995077.030502

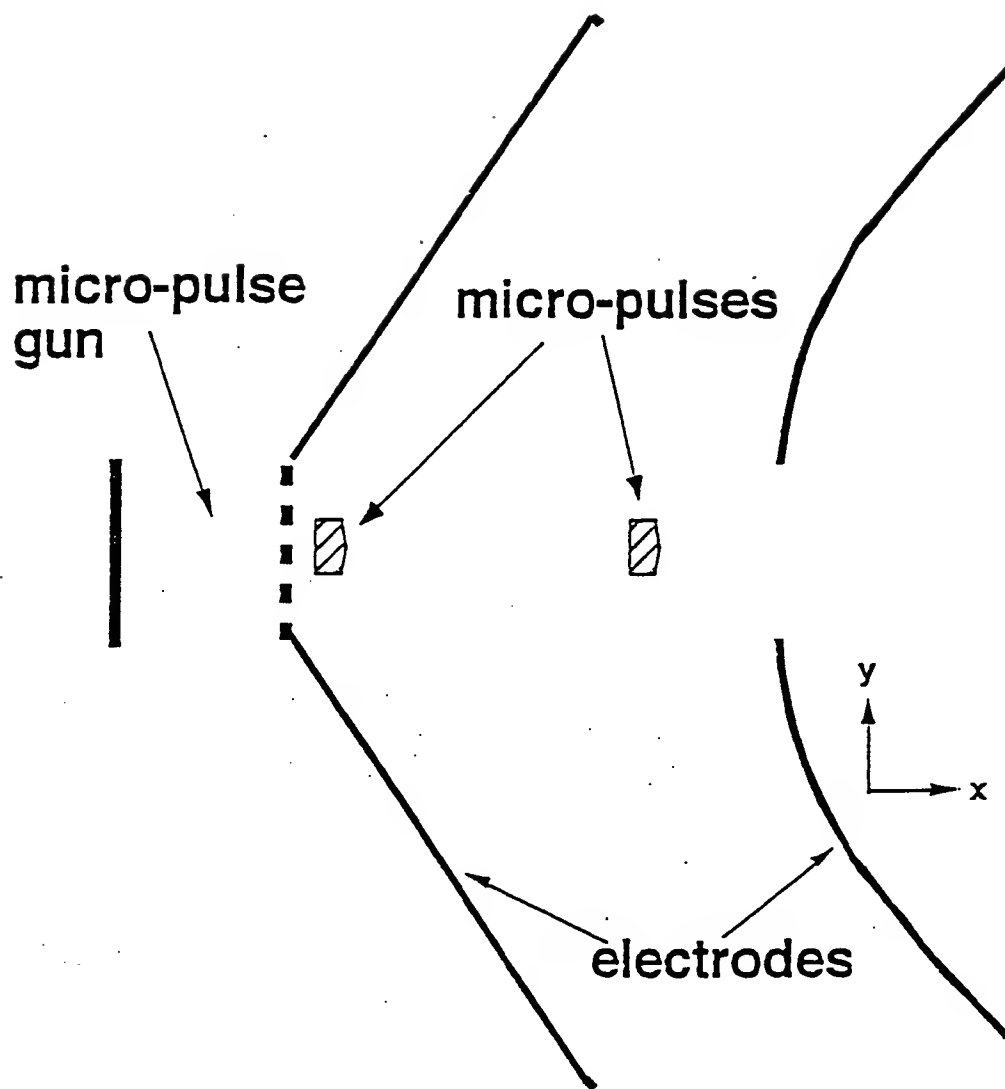


FIGURE 30

2050E0" 22056660

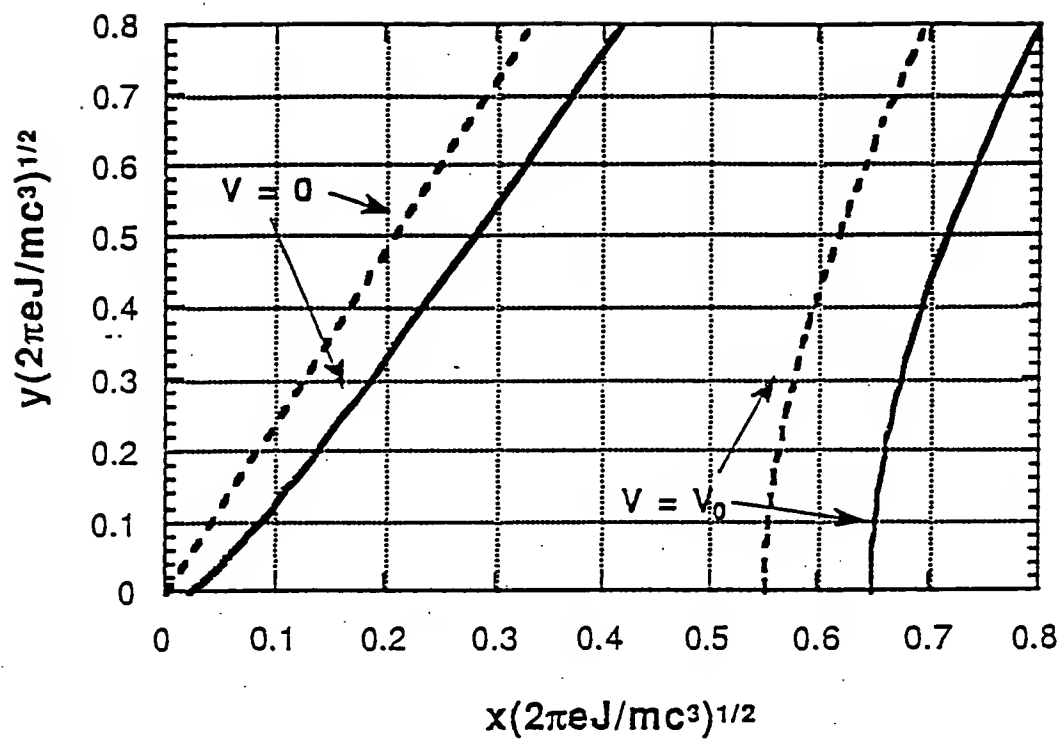


FIGURE 31

09995077.030502
2050E0 4056660

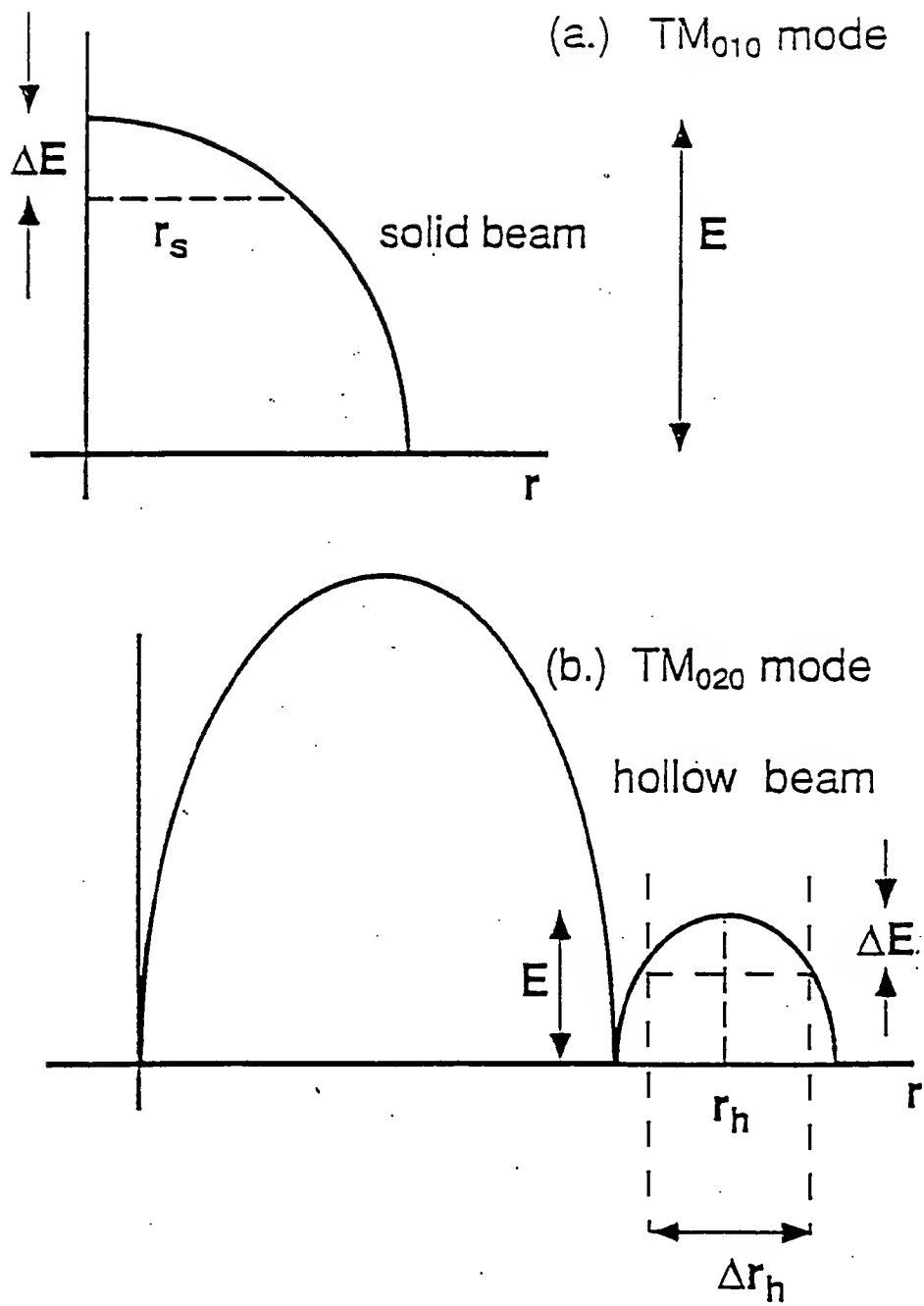


FIGURE 32

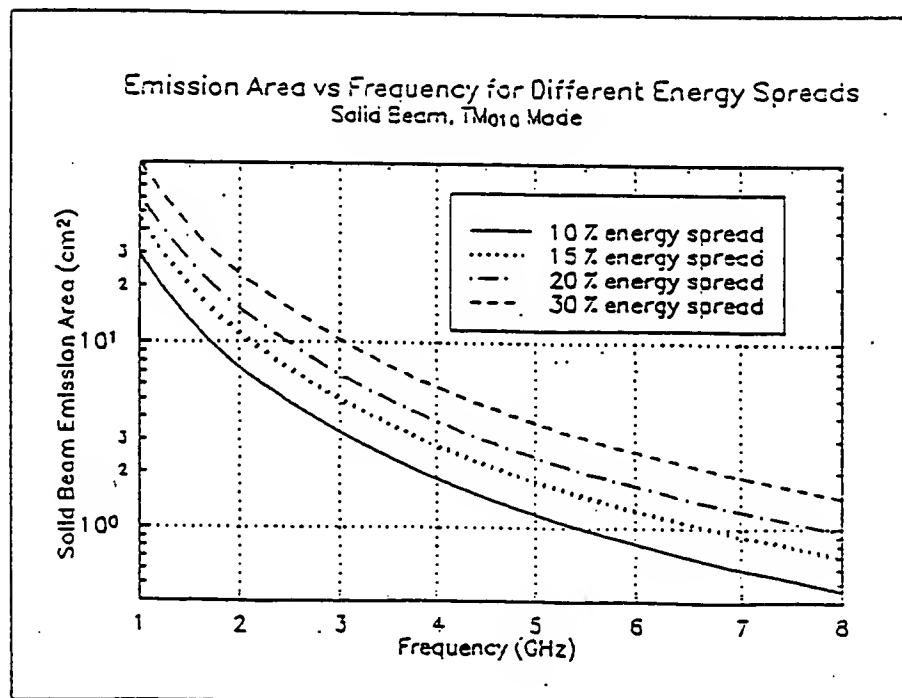
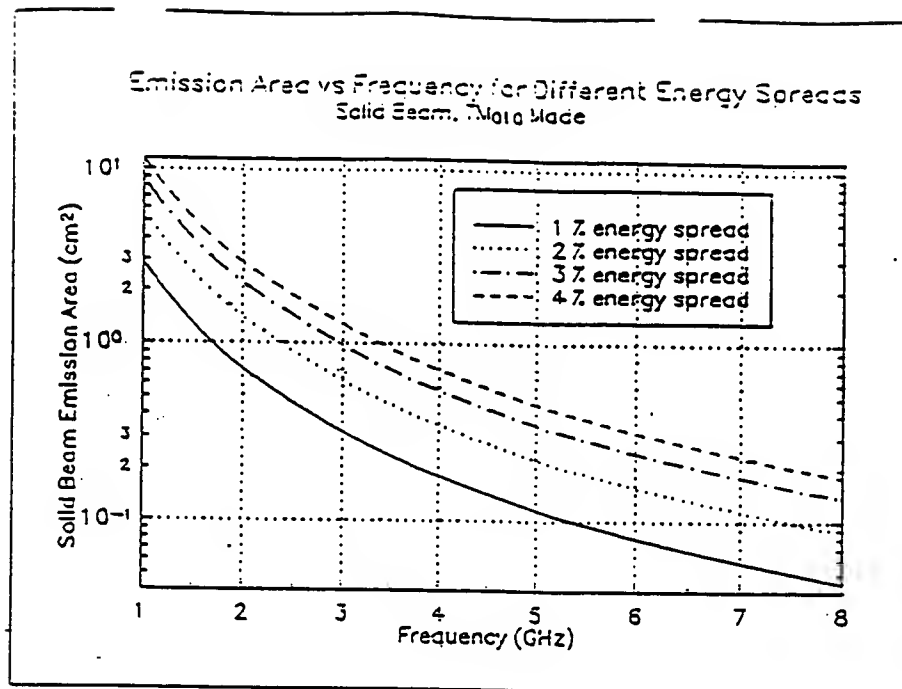
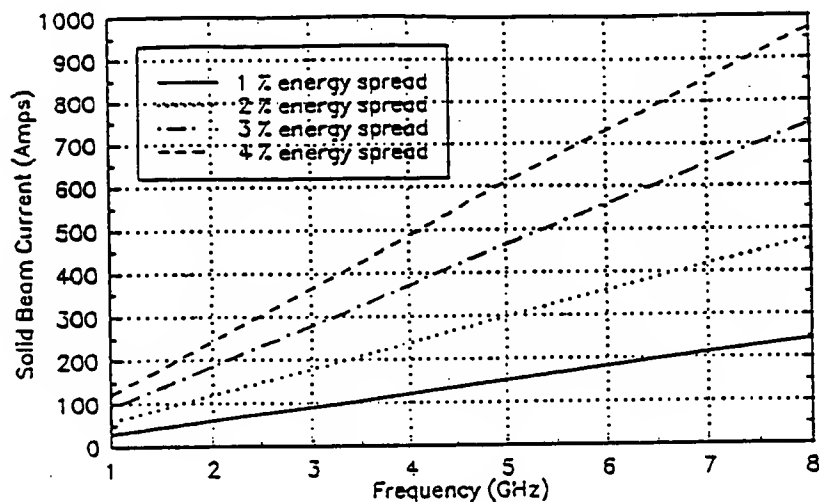


FIGURE 33

Beam Current vs Frequency for Different Energy Spreads
Solid Beam, TM₀₁₀ Mode, $\alpha_0=0.453$, $d=0.5$ cm



Beam Current vs Frequency for Different Energy Spreads
Solid Beam, TM₀₁₀ Mode, $\alpha_0=0.453$, $d=0.5$ cm

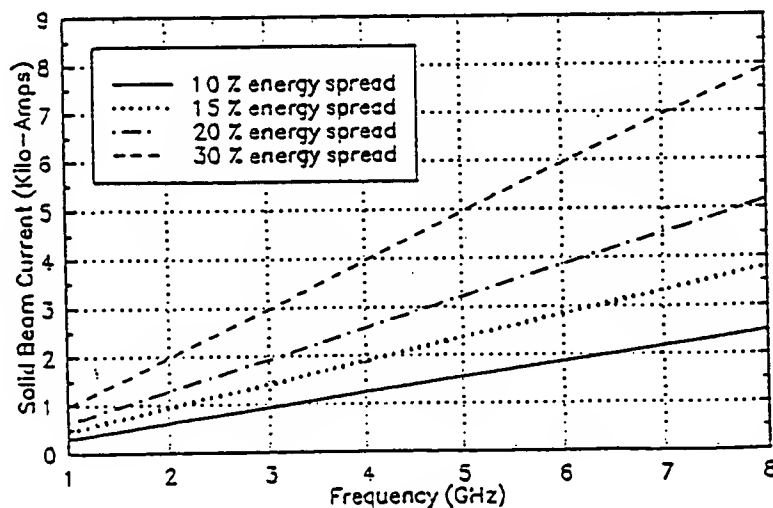


FIGURE 34

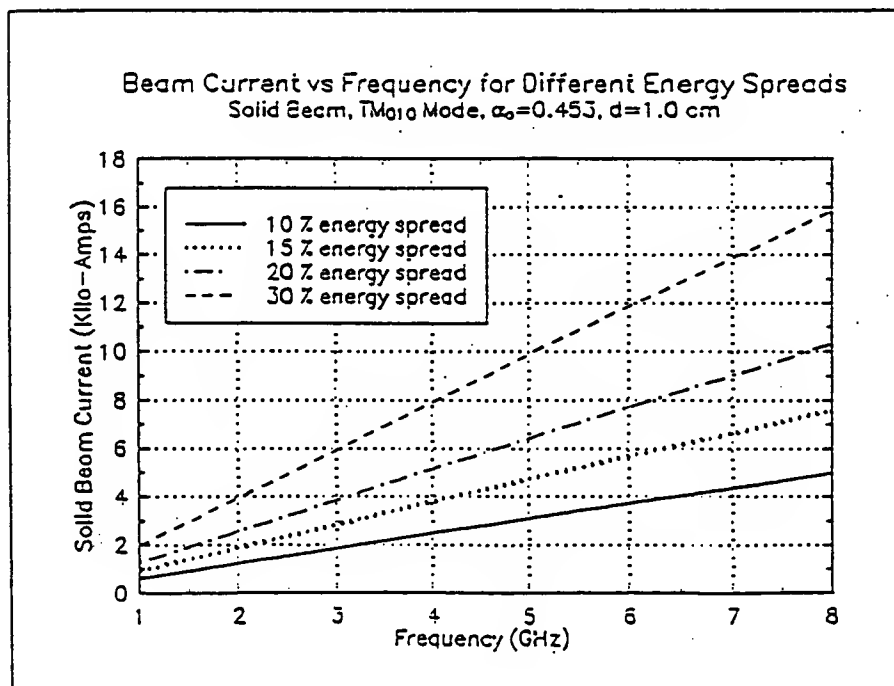
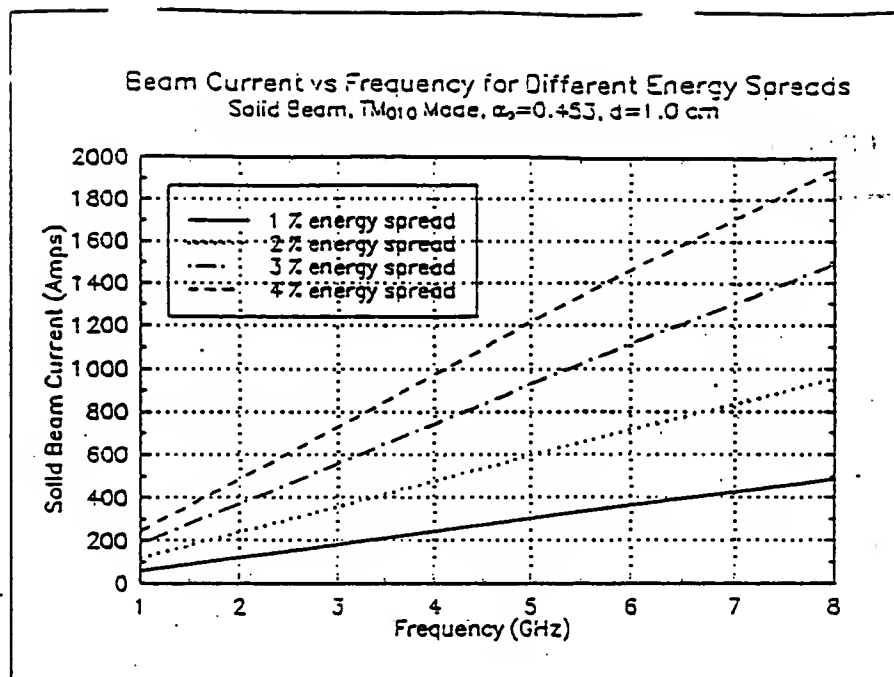


FIGURE 35

205080" 22056660

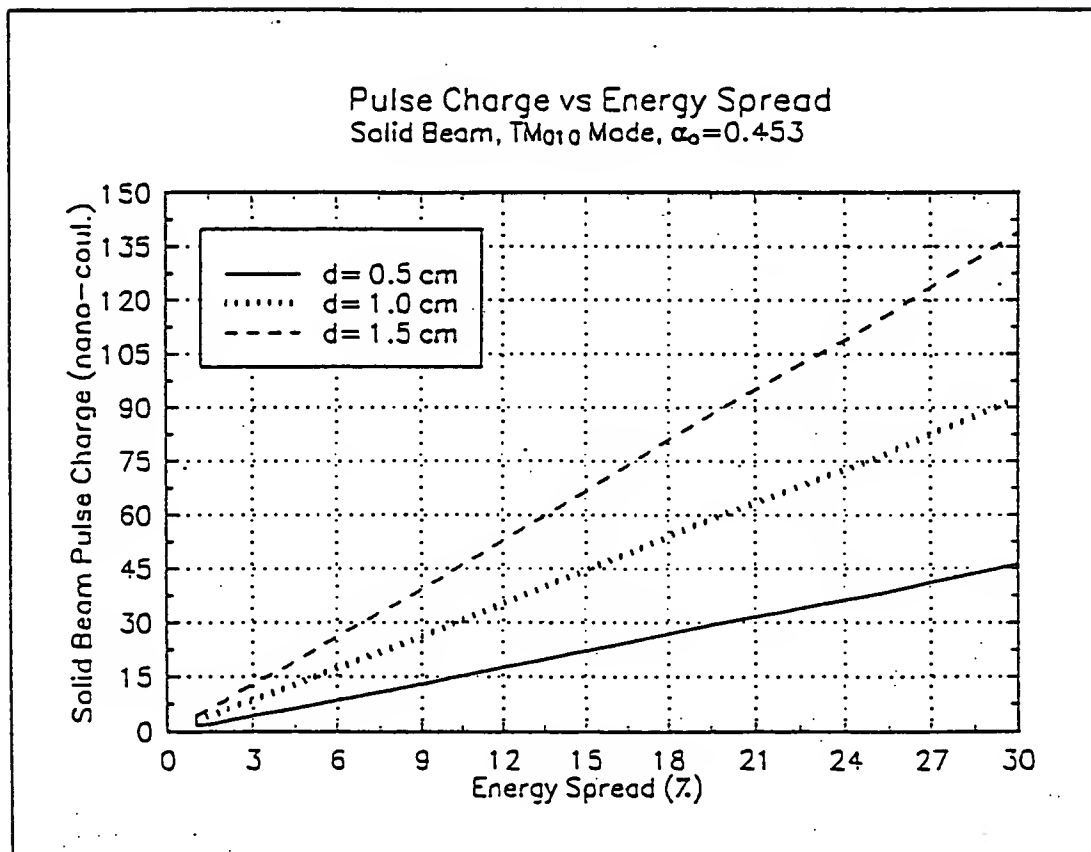


FIGURE 36

2050E0" 22056660

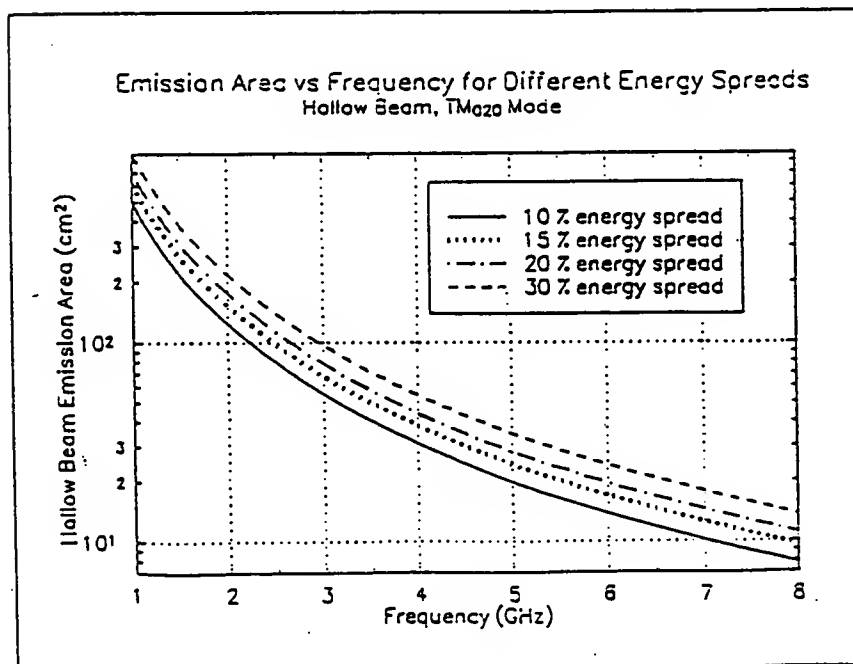
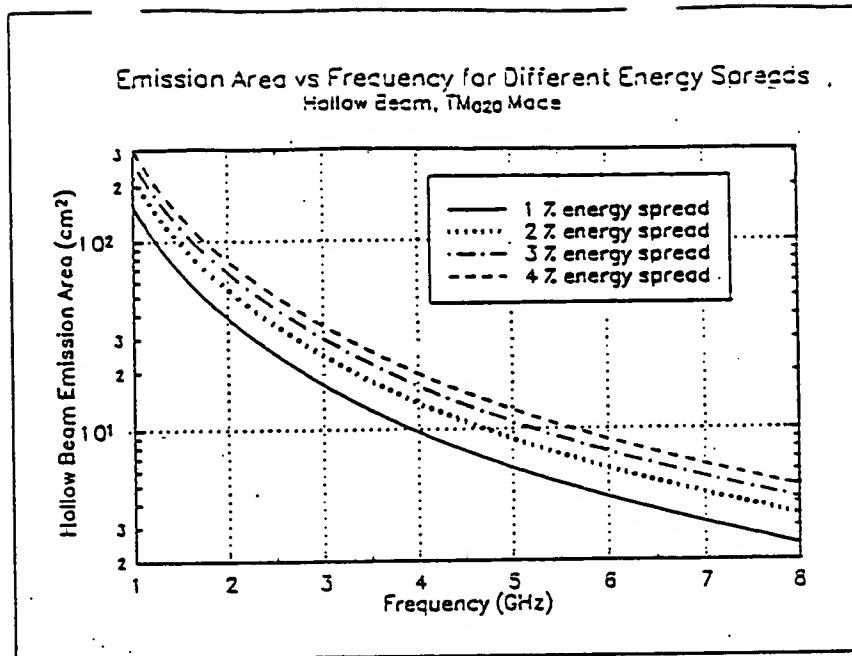


FIGURE 37

2050E0" 205660

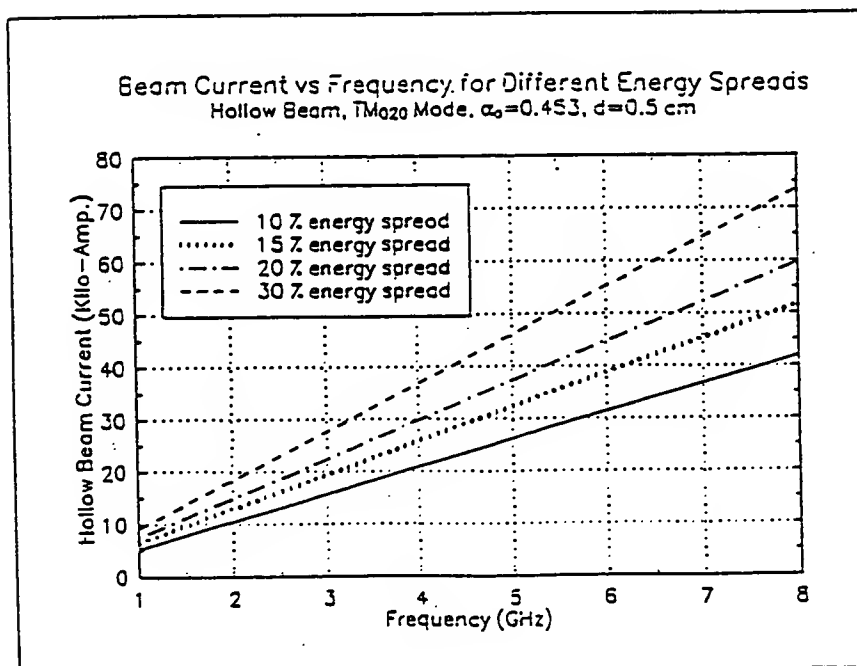
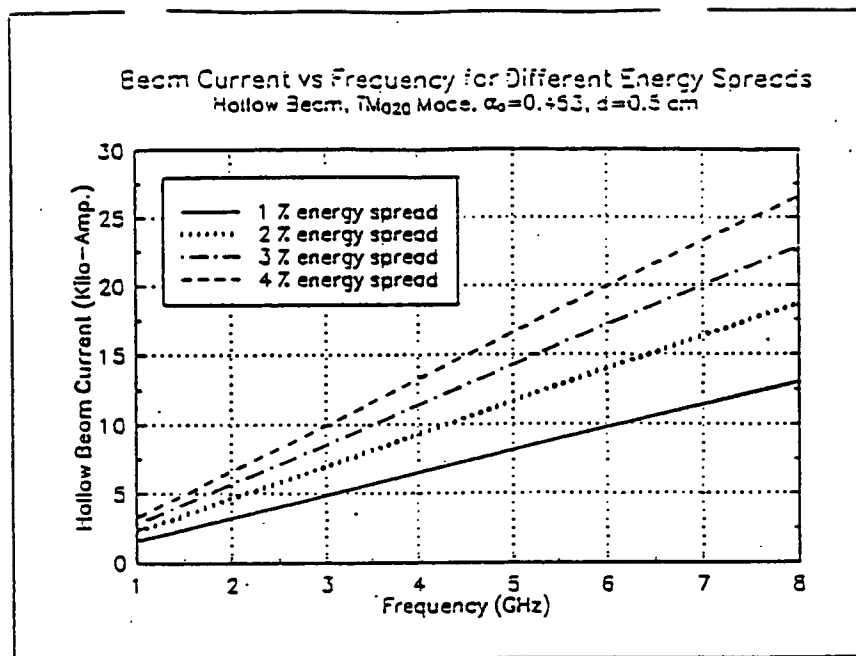
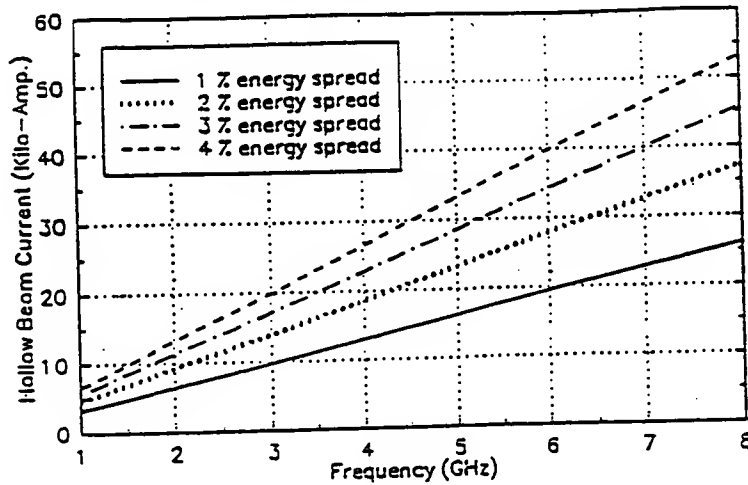


FIGURE 38

Beam Current vs Frequency for Different Energy Spreads
Hollow Beam, TM₀₂₀ Mode, $\alpha_0=0.453$, $d=1.0$ cm



Beam Current vs Frequency for Different Energy Spreads
Hollow Beam, TM₀₂₀ Mode, $\alpha_0=0.453$, $d=1.0$ cm

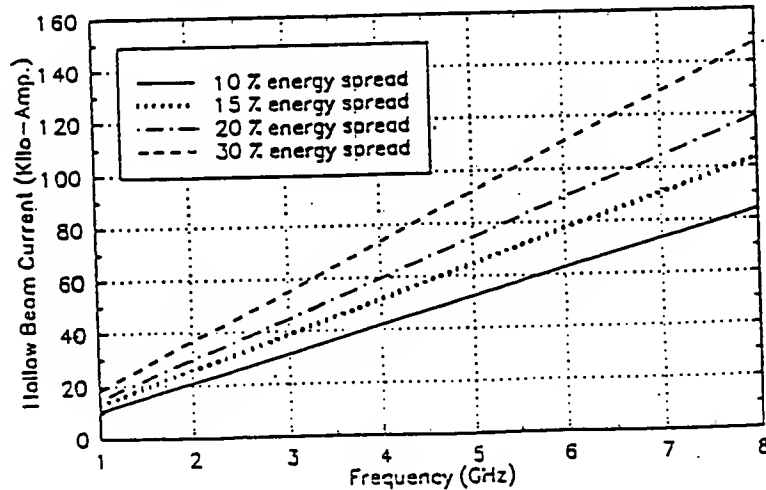


FIGURE 39

205020" 4056660

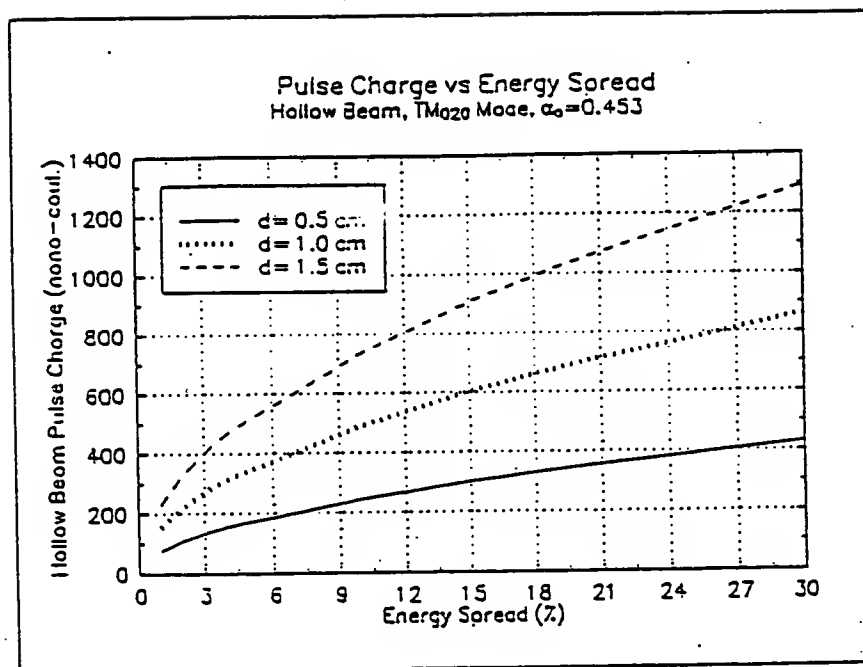


FIGURE 40

2050E0" / 2056660

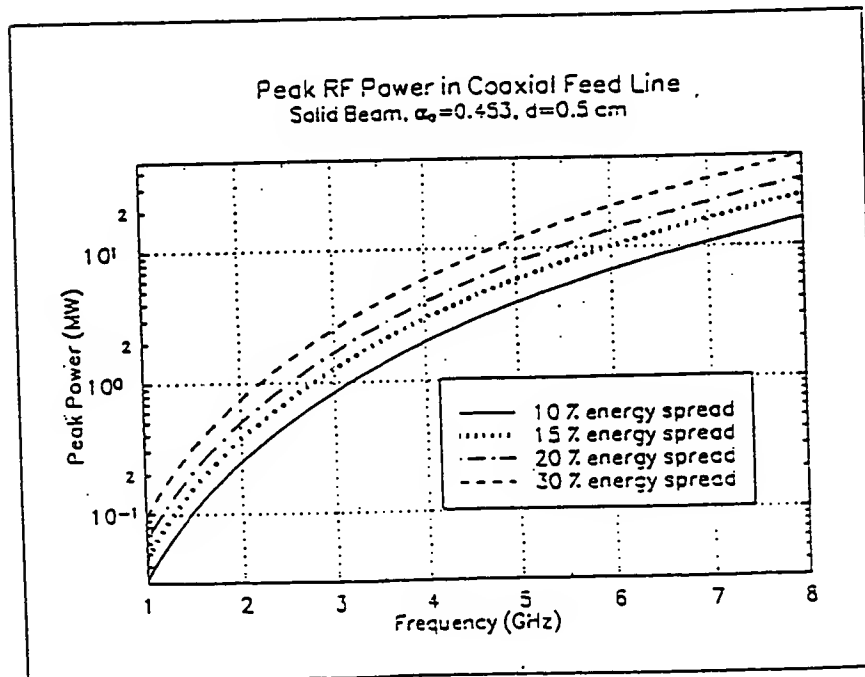
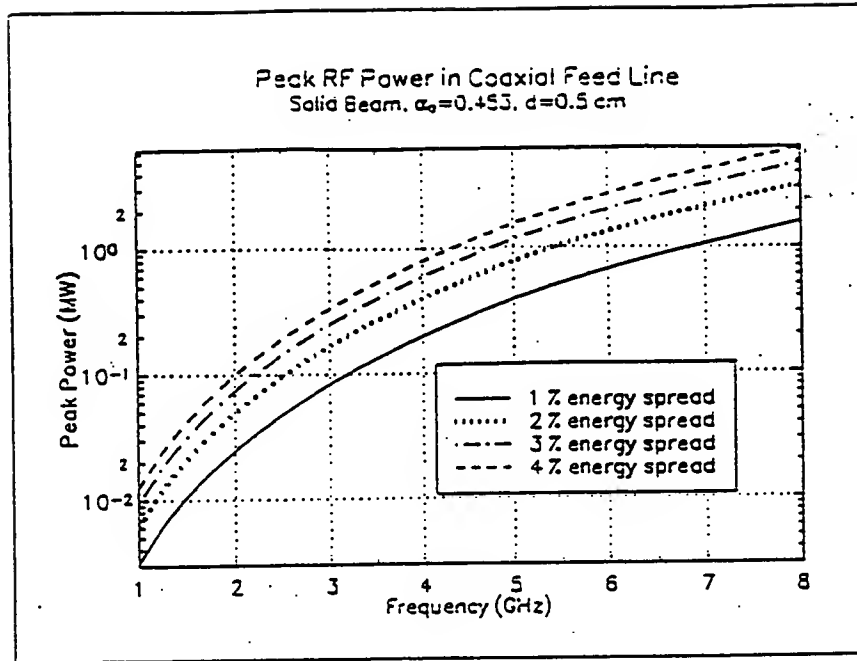


FIGURE 41

205060" 2056560

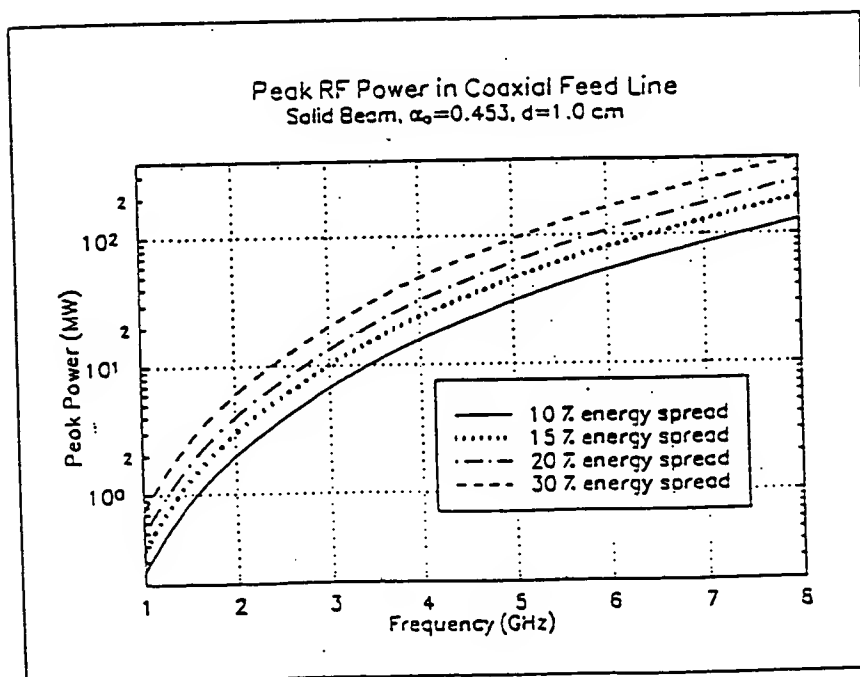
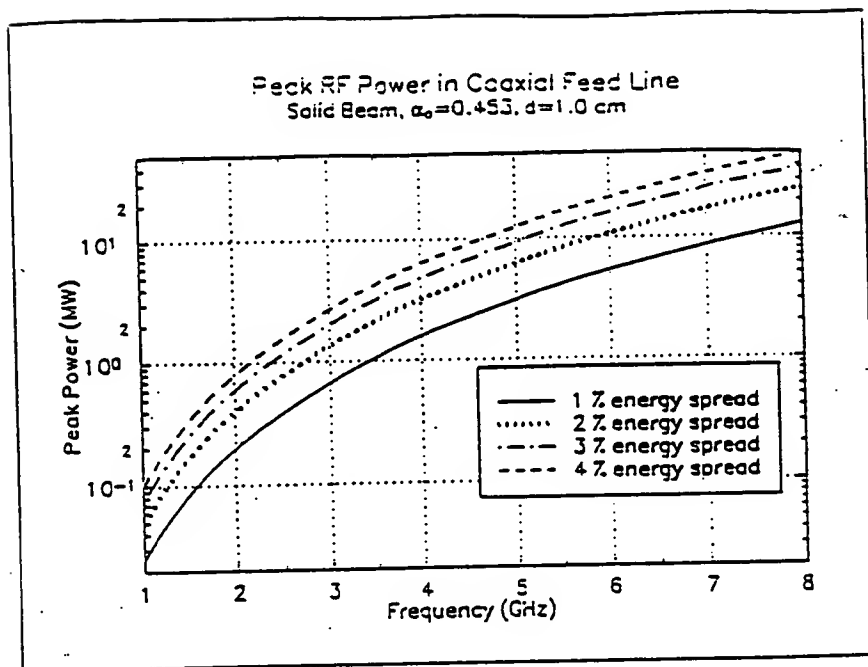


FIGURE 42

2050E072056660

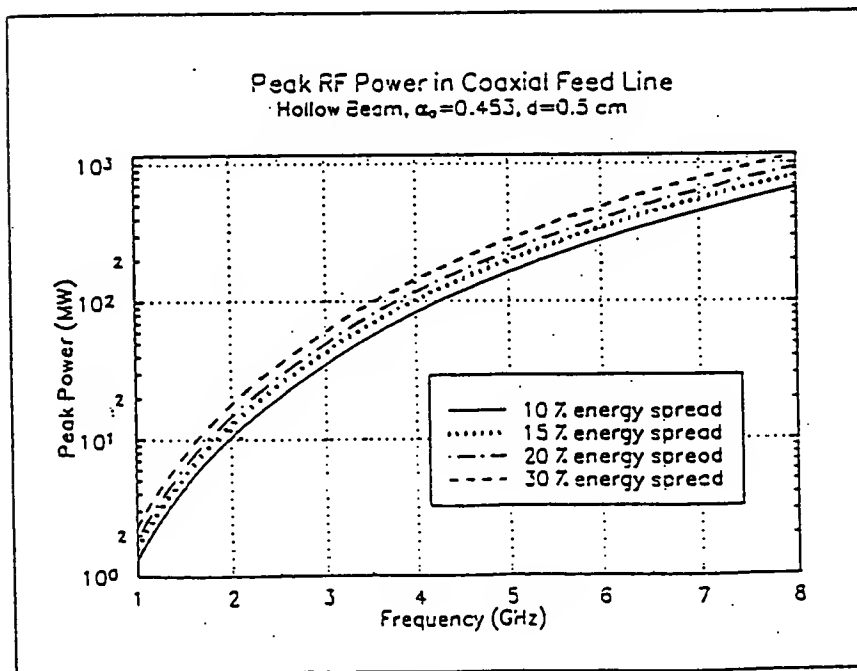
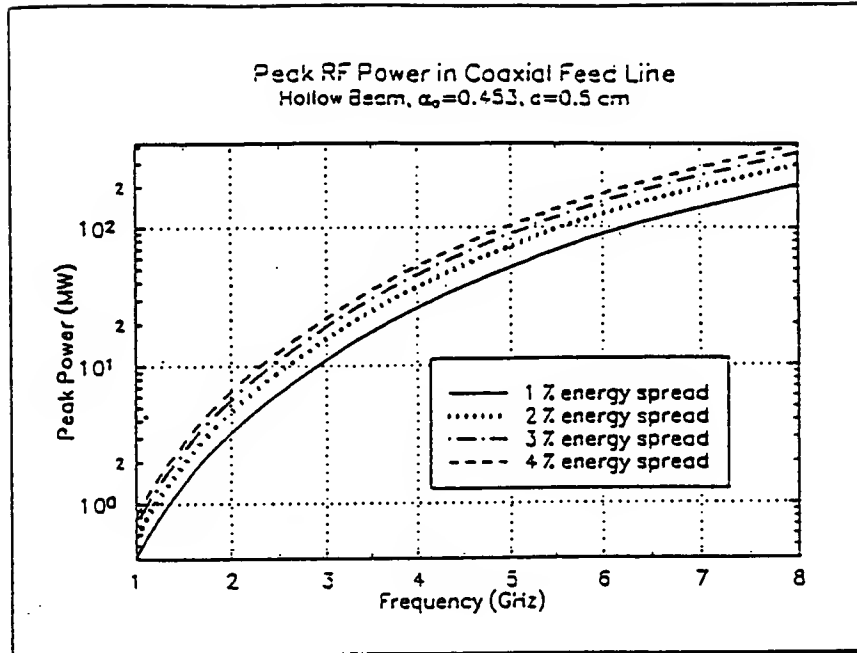


FIGURE 43

2050E0" 24056660

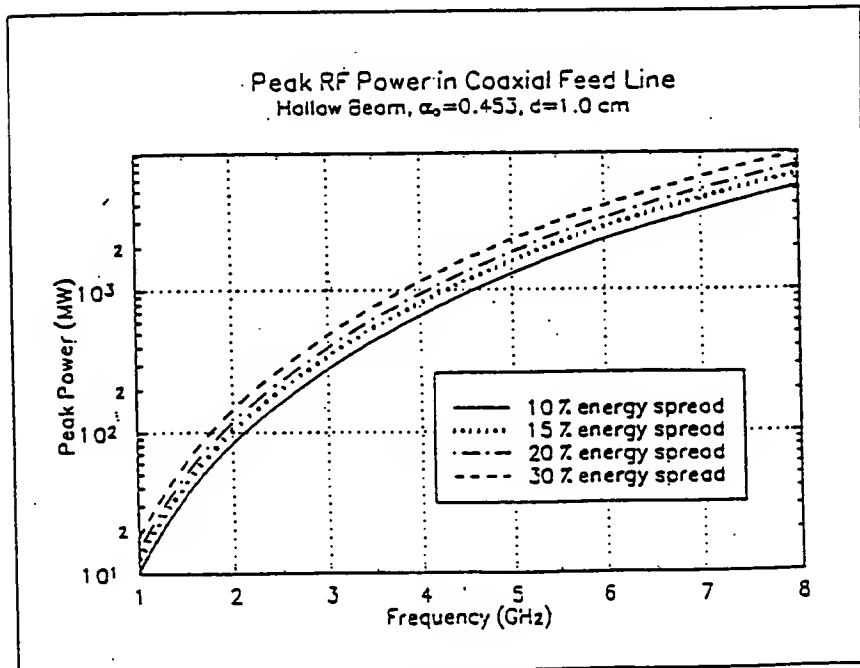
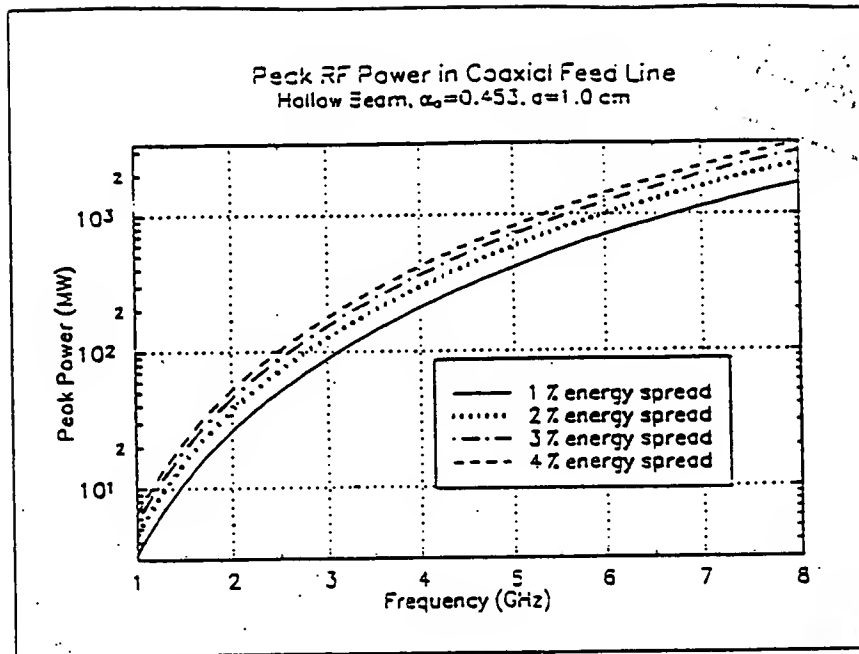


FIGURE 44

2050E0" 24056560

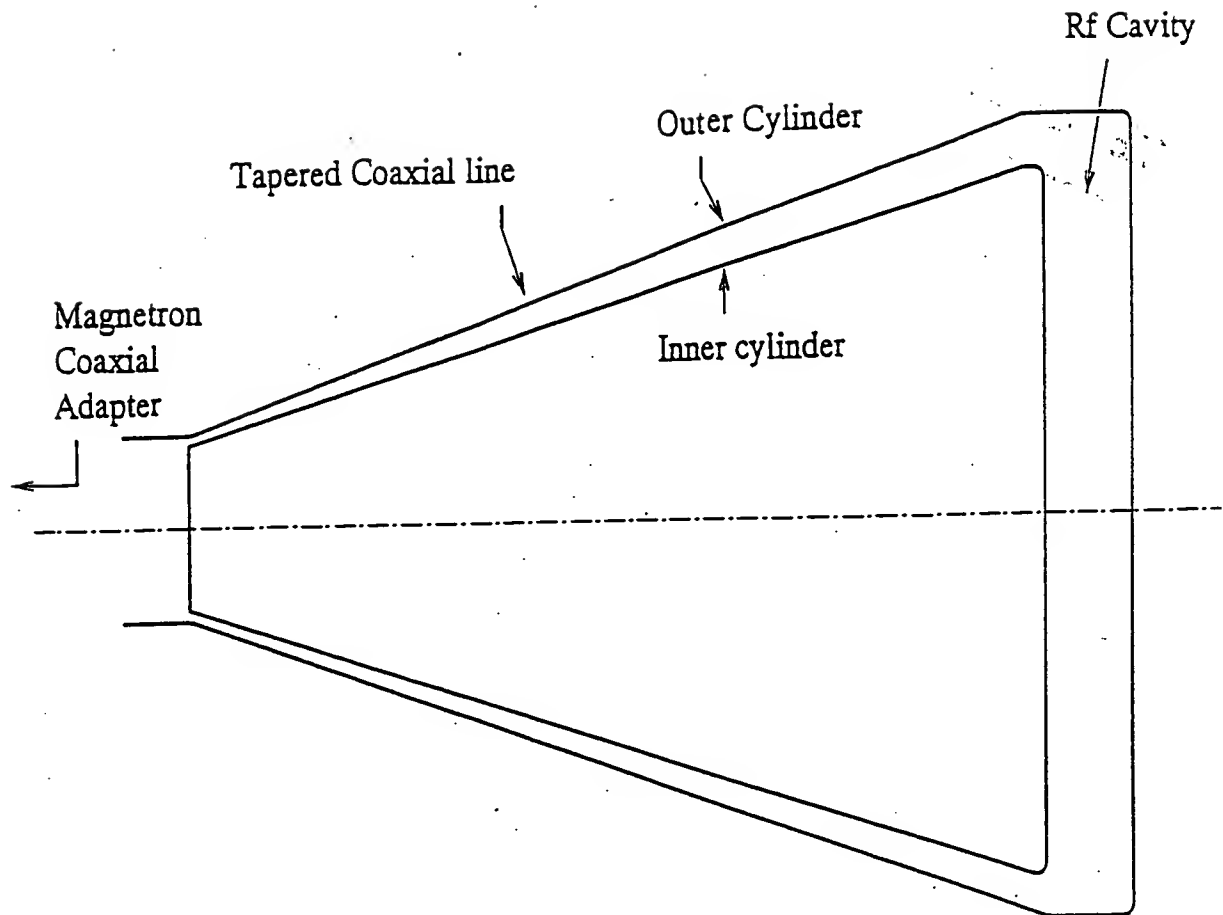


FIGURE 45

205060 42056650

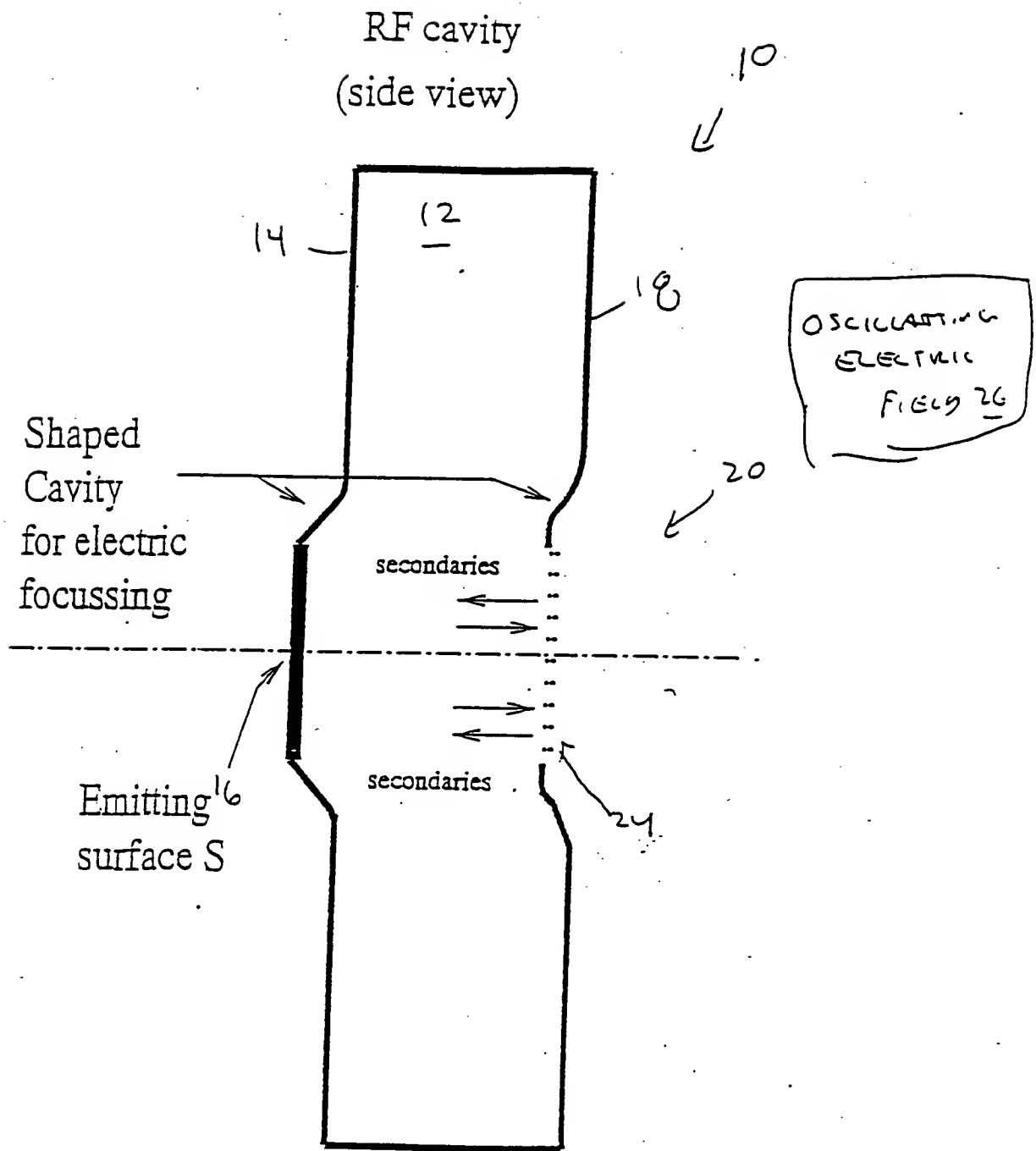


FIGURE 46